

Distribution List for Final Reports (Report by Parameter) and Combined Final
for

SKY VALLEY EDUCATION CENTER PCB INSPECTION

Project Code: OCE-009A

Account: 20162017B10P501E50

Project Officer: MICHELLE MULLINS

Sample #:s: 16124000-13

Analyses Required: PCB

CCs: Kendall Moore- USEPA

2 week Preliminary Results

Final reports (report by parameter) should be sent for the type of analysis indicated in the Quality Assurance Review. Please use the space below to document when Final reports were sent out to the Project Officer and above listed CCs.

Final Report of Prelims (analysis) sent out on: 4/16/16 (date and initial)

Final Report of PCB (analysis) sent out on: 4/21/16 km (date and initial)

Final Report of _____ (analysis) sent out on: _____ (date and initial)

Final Report of _____ (analysis) sent out on: _____ (date and initial)

Final Report of _____ (analysis) sent out on: _____ (date and initial)

Final Report of _____ (analysis) sent out on: _____ (date and initial)

Final Report of _____ (analysis) sent out on: _____ (date and initial)

Final Report of _____ (analysis) sent out on: _____ (date and initial)

Final Report of _____ (analysis) sent out on: _____ (date and initial)

Final Report of _____ (analysis) sent out on: _____ (date and initial)

Project complete and Excel file (EDD) electronically e-mailed:

4/21/16 km

(Date & Initials)

Corrective Action Notice Required? NO

Date Received: 3/24/16

If Yes, #of samples affected: _____

Turnaround Time: 8 wks

Total # of samples received: _____

Date Due: 5/19/16

Scan Chain of Custody QW

Date Verified w/ Sample Login: _____

Norton, Karen

From: Dodo, Gerald
Sent: Thursday, April 21, 2016 7:37 AM
To: Mullin, Michelle
Cc: Moore, Kendall; Norton, Karen; Wood, Kim; Pepich, Barry
Subject: FW: FINAL RESULTS- Sky Valley Education Center OCE-009A PCB (Complete)
Attachments: QA OCE-009A Sky Valley PCB.pdf; RA OCE-009A Sky Valley PCB.pdf; Sky Valley OCE-009A EDD.csv; Sky Valley OCE-009A PCB.pdf; Client satisfaction form Rev1.doc

Let me know if you need signed copies of the attached. This completes the analyses under project code OCE-009A. If you could take a moment to fill out and return to me and Barry Pepich the attached survey form it will be appreciated.

Gerald Dodo
Supervisory Chemist
DWCO
USEPA Region 10 Laboratory
7411 Beach Dr. East
Port Orchard, WA 98366

Phone: (360) 871-8728
FAX: 360-871-8748

From: Norton, Karen
Sent: Wednesday, April 20, 2016 2:25 PM
To: Dodo, Gerald <Dodo.Gerald@epa.gov>; Wood, Kim <Wood.Kim@epa.gov>
Subject: FINAL RESULTS- Sky Valley Education Center OCE-009A PCB (Complete)

Karen Norton
TechLaw, Inc.
Data Entry- Region 10 ESAT
(360) 871-8760



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10 LABORATORY
7411 Beach Dr. East
Port Orchard, Washington 98366

APR 25 2016

MEMORANDUM

Subject: Data Release for PCB Aroclor Results from the Region 10 USEPA Laboratory

Project Name: Sky Valley Education Center PCB Inspection

Project Code: OCE-009A
Gerald Dodo

From: Gerald Dodo, Supervisory Chemist
Office of Environmental Assessment, USEPA Region 10 Laboratory

To: Michelle Mullin
Office of Air Waste and Toxics, USEPA Region 10

CC: Kendall Moore
USEPA Region 5

I have authorized release of this data package. Attached you will find the PCB Aroclor analysis results for the Sky Valley Education Center samples collected 3/22/16. For further information regarding the attached data, contact Chris Pace at 360-871-8703.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10 LABORATORY
7411 Beach Dr. East
Port Orchard, Washington 98366

**QUALITY ASSURANCE MEMORANDUM
FOR ORGANIC CHEMICAL ANALYSES**

Date: April 19, 2016

To: Michelle Mullin
Office of Air Waste and Toxics, USEPA Region 10

From: Chris Pace, Chemist
Office of Environmental Assessment, USEPA Region 10 Laboratory

Subject: Quality Assurance Review for the PCB Aroclor Analysis of Samples from the Sky Valley Education Center PCB Inspection.

Project Code: OCE-009A

Account Code: 20162017B10P501E50

CC: Kendall Moore
USEPA Region 5

The following is a quality assurance review of the data for PCB Aroclor analysis of samples from the above referenced site. The analyses were performed by the EPA Region 10 Laboratory in Port Orchard, WA, following EPA and Laboratory guidelines.

This review was conducted for the following samples:

16124000	16124001	16124002	16124003	16124004	16124005
16124006	16124007	16124008	16124009	16124010	16124011
16124012	16124013				

Data Qualifications

Comments below refer to the quality control specifications outlined in the Laboratory's current Quality Assurance Manual, Standard Operating Procedures (SOPs) and the Quality Assurance Project Plan (QAPP). No excursions were required from the method Standard Operating Procedure.

The quality control measures which did not meet Laboratory/QAPP criteria are annotated in the title of each affected subsection with "*Laboratory/QAPP Criteria Could Not be Met*".

For those tests for which the EPA Region 10 Laboratory has been accredited by The NELAC Institute (TNI), all requirements of the current TNI Standard have been met.

1. Sample Receipt

Upon sample receipt, no conditions were noted that would impact data quality.

2. Sample Holding Times

The concentration of an analyte in a sample or extract of a sample may increase or decrease over time depending on the nature of the analyte. There is no SW-846 recommended maximum holding time for samples from the day of collection until extraction for PCBs. Extracts have a holding time maximum of 40 days from the time of preparation. All samples were extracted and analyzed within these criteria.

3. Sample Preparation

Samples were prepared according to the SOP.

4. Initial Calibration/Continuing Calibration Verification (CCV)

Initial calibrations were performed on 4/4/16. Calibration curves met the coefficient of determination criteria.

The CCV met the criteria for frequency of analysis. The percent accuracies met the criteria of 80-120% of the true value for all reported results.

5. Blank Analysis

Method blanks were analyzed with each sample batch to evaluate the potential for laboratory contamination and effects on the sample results. Target analytes were not detected in method blanks.

6. Surrogate Spikes - Laboratory/QAPP Criteria Could Not be Met

Surrogate recoveries are used to help in the evaluation of laboratory performance on individual samples. The surrogate compound used for these analyses was tetrachlorometaxylene and decachlorobiphenyl (PCB congener 209). All surrogate recoveries were within the SOP criteria of 30-150% except for the following.

Decachlorobiphenyl in sample 16124003 could not be determined accurately due to chromatographic interference and was qualified not applicable, "NA". None of the sample results were qualified on this basis.

7. Matrix Spike

An MS/MSD was not performed on this sample set.

8. LCS/LCSD

Laboratory Control Samples/Laboratory Control Sample Duplicates (LCS/LCSD) are generated to provide information on the accuracy and precision of the analytical method and the laboratory performance. The LCS/LCSD recoveries met the SOP criteria of 70-130% with a relative percent difference $\leq 50\%$.

9. Compound Quantitation

The initial calibration functions were used for calculations. Reported quantitation limits were based on the initial calibration standards and sample size used for the analysis.

All manual integrations have been reviewed and found to comply with acceptable integration practices.

10. Identification

PCBs and the surrogates were identified based on chromatographic retention times of two dissimilar gas chromatography columns as determined from the initial calibration and pattern matching with standards.

11. Data Qualifiers

All requirements for data qualifiers from the preceding sections were accumulated. Each sample data summary sheet and each compound was checked for positive or negative results. From this, the overall need for data qualifiers for each analysis was determined. In cases where more than one of the preceding sections required data qualifiers, the most restrictive qualifier has been added to the data.

The usefulness of qualified data should be treated according to the severity of the qualifier in light of the project's data quality objectives. Should questions arise regarding the data, contact Chris Pace at the Region 10 Laboratory, phone number (360) 871 - 8703.

Qualifier	Definition
U	The analyte was not detected at or above the reported value.
J	The identification of the analyte is acceptable; the reported value is an estimate.
UJ	The analyte was not detected at or above the reported value. The reported value is an estimate.
R	The presence or absence of the analyte can not be determined from the data due to severe quality control problems. The data are rejected and considered unusable. <u>No value is reported with this qualification.</u>
NA	Not Applicable, the parameter was not analyzed for, or there is no analytical result for this parameter. <u>No value is reported with this qualification.</u>



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10 LABORATORY
7411 Beach Dr. East
Port Orchard, Washington 98366

Checklist Completed by (initials): DR

Date: 4/20

QA MEMO CHECKLIST

OK

Recent date on memo

OK

Memo signed by reviewer

OK

Sender and all recipients correct (In the "To" and "cc" fields)

OK

Project name correct

OK

Project code correct

OK

Account code correct

OK

Sample numbers correct

Verify through the assignment tab in LIMS that the analyst has loaded results for all samples.

OK

Correct header on subsequent pages

OK

Data qualifier definitions included on last page (only the ones that are actually used should be included in the memo.)

OK

TNI (Formerly NELAC) disclosure included

OK

No red type remaining in the memo (clue to misspelled words or sections where directions/choices have not been deleted)

NA

If preliminary data was issued, a statement that preliminary and final data agree or disagree.

NA

Verify sample times (collection/prep/analysis) on final report for all parameters with 72-hour holding times: all Micro, BOD, pH, Cr⁺⁶, orthophos, NO₃ + NO₂ (unpreserved). If a holding time was exceeded, is it discussed in the QA memo?

US EPA Region 10 Laboratory



Assignment Reconciliation Report

4/20/2016

Page 1 of 1

OCE-009A SKY VALLEY EDUCATION CENTER

<u>Sample ID</u>	<u>Sample Information</u>	<u>Matrix</u>	<u>Lab Area</u>	<u>Parameter</u>	<u>HT</u>	<u>HT End</u>	<u>Done?</u>	<u>Analysis Count</u>
16124000	Blank	Wipe	Organics	PCB	365	3/22/17 10:05		1
16124001	Classroom D Ballast 6	Wipe	Organics	PCB	365	3/22/17 10:10		2
16124002	Classroom D Floor under B6	Wipe	Organics	PCB	365	3/22/17 10:15		1
16124003	Classroom D Ballast 6 cover	Wipe	Organics	PCB	365	3/22/17 10:18		2
16124004	Classroom D Ballast 4	Wipe	Organics	PCB	365	3/22/17 10:23		2
16124005	Classroom D floor utility cover	Wipe	Organics	PCB	365	3/22/17 10:35		1
16124006	Classroom C Ballast 3 cover	Wipe	Organics	PCB	365	3/22/17 10:40		1
16124007	Classroom C Ballast 3 fixture	Wipe	Organics	PCB	365	3/22/17 10:45		3
16124008	Classroom C Ballast 2	Wipe	Organics	PCB	365	3/22/17 11:00		1
16124009	Room 20 Pods	Wipe	Organics	PCB	365	3/22/17 11:35		1
16124010	Room 14 Pods/ cover	Wipe	Organics	PCB	365	3/22/17 11:45		1
16124011	Room 2 Ballast 3	Wipe	Organics	PCB	365	3/22/17 12:20		2
16124012	Room 5 Ballast 1	Wipe	Organics	PCB	365	3/22/17 12:25		1
16124013	Classroom D floor under B4	Wipe	Organics	PCB	365	3/23/17 9:05		1

US EPA Region 10 Laboratory

Multi-Analyte Final Report



Project Code : OCE-009A

Site : SKY VALLEY EDUCATION CENTER

Contact : Michelle Mullin

Account : 20162017B10P501E50

Sample : 16124000

Information : Blank

Matrix : Wipe

Weight Basis : Dry

Collected : 3/22/2016 10:05:00AM

Parameter : PCB

Lab Matrix : Swab

Prep Method: 3580A - Waste Dilution

Analysis Method: 8082A - Polychlorinated Biphenyls by GC/ECD

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
12674112	PCB-1016	2.5	ug	U	4/ 4/16	1
11104282	PCB-1221	2.5	ug	U	4/ 4/16	1
11141165	PCB-1232	2.5	ug	U	4/ 4/16	1
53469219	PCB-1242	2.5	ug	U	4/ 4/16	1
12672296	PCB-1248	2.5	ug	U	4/ 4/16	1
11097691	PCB-1254	2.5	ug	U	4/ 4/16	1
11096825	PCB-1260	2.5	ug	U	4/ 4/16	1
Surrogate Compounds:						
2051243	PCB Congener 209	92	%Rec		4/ 4/16	1
877098	Tetrachlorometaxylene	72	%Rec		4/ 4/16	1

Sample : 16124001

Information : Classroom D Ballast 6

Matrix : Wipe

Weight Basis : Dry

Collected : 3/22/2016 10:10:00AM

Parameter : PCB

Lab Matrix : Swab

Prep Method: 3580A - Waste Dilution

Analysis Method: 8082A - Polychlorinated Biphenyls by GC/ECD

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
12674112	PCB-1016	2.5	ug	U	4/ 5/16	1
11104282	PCB-1221	2.5	ug	U	4/ 5/16	1
11141165	PCB-1232	2.5	ug	U	4/ 5/16	1
53469219	PCB-1242	170	ug		4/ 5/16	10
12672296	PCB-1248	2.5	ug	U	4/ 5/16	1
11097691	PCB-1254	2.5	ug	U	4/ 5/16	1
11096825	PCB-1260	2.5	ug	U	4/ 5/16	1
Surrogate Compounds:						
2051243	PCB Congener 209	69	%Rec		4/ 5/16	1
877098	Tetrachlorometaxylene	67	%Rec		4/ 5/16	1

Sample : 16124002

Information : Classroom D Floor under B6

Matrix : Wipe

Weight Basis : Dry

Collected : 3/22/2016 10:15:00AM

Parameter : PCB

Lab Matrix : Swab

Prep Method: 3580A - Waste Dilution

Analysis Method: 8082A - Polychlorinated Biphenyls by GC/ECD

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
12674112	PCB-1016	2.5	ug	U	4/ 4/16	1
11104282	PCB-1221	2.5	ug	U	4/ 4/16	1
11141165	PCB-1232	2.5	ug	U	4/ 4/16	1
53469219	PCB-1242	2.5	ug	U	4/ 4/16	1
12672296	PCB-1248	2.5	ug	U	4/ 4/16	1
11097691	PCB-1254	2.5	ug	U	4/ 4/16	1
11096825	PCB-1260	2.5	ug	U	4/ 4/16	1
Surrogate Compounds:						
2051243	PCB Congener 209	96	%Rec		4/ 4/16	1
877098	Tetrachlorometaxylene	80	%Rec		4/ 4/16	1

Sample : 16124003

Information : Classroom D Ballast 6 cover

Matrix : Wipe

Weight Basis : Dry

Collected : 3/22/2016 10:18:00AM

Parameter : PCB

Lab Matrix : Swab

Prep Method: 3580A - Waste Dilution

Analysis Method: 8082A - Polychlorinated Biphenyls by GC/ECD

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
12674112	PCB-1016	2.5 ug	U	4/ 5/16		1
11104282	PCB-1221	2.5 ug	U	4/ 5/16		1
11141165	PCB-1232	2.5 ug	U	4/ 5/16		1
53469219	PCB-1242	9300 ug		4/ 5/16		100
12672296	PCB-1248	2.5 ug	U	4/ 5/16		1
11097691	PCB-1254	2.5 ug	U	4/ 5/16		1
11096825	PCB-1260	2.5 ug	U	4/ 5/16		1
Surrogate Compounds:						
2051243	PCB Congener 209		NA	4/ 5/16		1
877098	Tetrachlorometaxylene	76 %Rec		4/ 5/16		1

Sample : 16124004

Information : Classroom D Ballast 4

Matrix : Wipe

Weight Basis : Dry

Collected : 3/22/2016 10:23:00AM

Parameter : PCB

Lab Matrix : Swab

Prep Method: 3580A - Waste Dilution

Analysis Method: 8082A - Polychlorinated Biphenyls by GC/ECD

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
12674112	PCB-1016	2.5 ug	U	4/ 5/16		1
11104282	PCB-1221	2.5 ug	U	4/ 5/16		1
11141165	PCB-1232	2.5 ug	U	4/ 5/16		1
53469219	PCB-1242	13 ug		4/ 5/16		1
12672296	PCB-1248	2.5 ug	U	4/ 5/16		1
11097691	PCB-1254	2.5 ug	U	4/ 5/16		1
11096825	PCB-1260	15 ug		4/13/16		1
Surrogate Compounds:						
2051243	PCB Congener 209	81 %Rec		4/ 5/16		1
877098	Tetrachlorometaxylene	67 %Rec		4/ 5/16		1

Sample : 16124005

Information : Classroom D floor utility cover

Matrix : Wipe

Weight Basis : Dry

Collected : 3/22/2016 10:35:00AM

Parameter : PCB

Lab Matrix : Swab

Prep Method: 3580A - Waste Dilution

Analysis Method: 8082A - Polychlorinated Biphenyls by GC/ECD

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
12674112	PCB-1016	2.5	ug	U	4/ 5/16	1
11104282	PCB-1221	2.5	ug	U	4/ 5/16	1
11141165	PCB-1232	2.5	ug	U	4/ 5/16	1
53469219	PCB-1242	25	ug		4/ 5/16	1
12672296	PCB-1248	2.5	ug	U	4/ 5/16	1
11097691	PCB-1254	2.5	ug	U	4/ 5/16	1
11096825	PCB-1260	2.5	ug	U	4/ 5/16	1
Surrogate Compounds:						
2051243	PCB Congener 209	87	%Rec		4/ 5/16	1
877098	Tetrachlorometaxylene	68	%Rec		4/ 5/16	1

Sample : 16124006

Information : Classroom C Ballast 3 cover

Matrix : Wipe

Weight Basis : Dry

Collected : 3/22/2016 10:40:00AM

Parameter : PCB

Lab Matrix : Swab

Prep Method: 3580A - Waste Dilution

Analysis Method: 8082A - Polychlorinated Biphenyls by GC/ECD

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
12674112	PCB-1016	2.5	ug	U	4/ 4/16	1
11104282	PCB-1221	2.5	ug	U	4/ 4/16	1
11141165	PCB-1232	2.5	ug	U	4/ 4/16	1
53469219	PCB-1242	7.3	ug		4/ 4/16	1
12672296	PCB-1248	2.5	ug	U	4/ 4/16	1
11097691	PCB-1254	2.5	ug	U	4/ 4/16	1
11096825	PCB-1260	2.5	ug	U	4/ 4/16	1
Surrogate Compounds:						
2051243	PCB Congener 209	68	%Rec		4/ 4/16	1
877098	Tetrachlorometaxylene	68	%Rec		4/ 4/16	1

Sample : 16124007

Information : Classroom C Ballast 3 fixture

Matrix : Wipe

Weight Basis : Dry

Collected : 3/22/2016 10:45:00AM

Parameter : PCB

Lab Matrix : Swab

Prep Method: 3580A - Waste Dilution

Analysis Method: 8082A - Polychlorinated Biphenyls by GC/ECD

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
12674112	PCB-1016	2.5	ug	U	4/ 5/16	1
11104282	PCB-1221	2.5	ug	U	4/ 5/16	1
11141165	PCB-1232	2.5	ug	U	4/ 5/16	1
53469219	PCB-1242	240	ug		4/ 5/16	10
12672296	PCB-1248	2.5	ug	U	4/ 5/16	1
11097691	PCB-1254	2.5	ug	U	4/ 5/16	1
11096825	PCB-1260	6.1	ug		4/13/16	1
Surrogate Compounds:						
2051243	PCB Congener 209	91	%Rec		4/ 5/16	1
877098	Tetrachlorometaxylene	69	%Rec		4/ 5/16	1

Sample : 16124008

Information : Classroom C Ballast 2

Matrix : Wipe

Weight Basis : Dry

Collected : 3/22/2016 11:00:00AM

Parameter : PCB

Lab Matrix : Swab

Prep Method: 3580A - Waste Dilution

Analysis Method: 8082A - Polychlorinated Biphenyls by GC/ECD

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
12674112	PCB-1016	2.5	ug	U	4/ 4/16	1
11104282	PCB-1221	2.5	ug	U	4/ 4/16	1
11141165	PCB-1232	2.5	ug	U	4/ 4/16	1
53469219	PCB-1242	7.1	ug		4/ 4/16	1
12672296	PCB-1248	2.5	ug	U	4/ 4/16	1
11097691	PCB-1254	2.5	ug	U	4/ 4/16	1
11096825	PCB-1260	2.5	ug	U	4/ 4/16	1
Surrogate Compounds:						
2051243	PCB Congener 209	69	%Rec		4/ 4/16	1
877098	Tetrachlorometaxylene	59	%Rec		4/ 4/16	1

Sample : 16124009

Information : Room 20 Pods

Matrix : Wipe

Weight Basis : Dry

Collected : 3/22/2016 11:35:00AM

Parameter : PCB

Lab Matrix : Swab

Prep Method: 3580A - Waste Dilution

Analysis Method: 8082A - Polychlorinated Biphenyls by GC/ECD

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
12674112	PCB-1016	2.5	ug	U	4/ 5/16	1
11104282	PCB-1221	2.5	ug	U	4/ 5/16	1
11141165	PCB-1232	2.5	ug	U	4/ 5/16	1
53469219	PCB-1242	2.5	ug	U	4/ 5/16	1
12672296	PCB-1248	2.5	ug	U	4/ 5/16	1
11097691	PCB-1254	2.5	ug	U	4/ 5/16	1
11096825	PCB-1260	2.5	ug	U	4/ 5/16	1
Surrogate Compounds:						
2051243	PCB Congener 209	69	%Rec		4/ 5/16	1
877098	Tetrachlorometaxylene	69	%Rec		4/ 5/16	1

Sample : 16124010

Information : Room 14 Pods/ cover

Matrix : Wipe

Weight Basis : Dry

Collected : 3/22/2016 11:45:00AM

Parameter : PCB

Lab Matrix : Swab

Prep Method: 3580A - Waste Dilution

Analysis Method: 8082A - Polychlorinated Biphenyls by GC/ECD

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
12674112	PCB-1016	2.5	ug	U	4/ 5/16	1
11104282	PCB-1221	2.5	ug	U	4/ 5/16	1
11141165	PCB-1232	2.5	ug	U	4/ 5/16	1
53469219	PCB-1242	5.4	ug		4/ 5/16	1
12672296	PCB-1248	2.5	ug	U	4/ 5/16	1
11097691	PCB-1254	2.5	ug	U	4/ 5/16	1
11096825	PCB-1260	2.5	ug	U	4/ 5/16	1
Surrogate Compounds:						
2051243	PCB Congener 209	61	%Rec		4/ 5/16	1
877098	Tetrachlorometaxylene	71	%Rec		4/ 5/16	1

Sample : 16124011

Information : Room 2 Ballast 3

Matrix : Wipe

Weight Basis : Dry

Collected : 3/22/2016 12:20:00PM

Parameter : PCB

Lab Matrix : Swab

Prep Method: 3580A - Waste Dilution

Analysis Method: 8082A - Polychlorinated Biphenyls by GC/ECD

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
12674112	PCB-1016	2.5	ug	U	4/ 5/16	1
11104282	PCB-1221	2.5	ug	U	4/ 5/16	1
11141165	PCB-1232	2.5	ug	U	4/ 5/16	1
53469219	PCB-1242	5.3	ug	U	4/ 5/16	1
12672296	PCB-1248	2.5	ug	U	4/ 5/16	1
11097691	PCB-1254	2.5	ug	U	4/ 5/16	1
11096825	PCB-1260	4.3	ug		4/13/16	1
Surrogate Compounds:						
2051243	PCB Congener 209	56	%Rec		4/ 5/16	1
877098	Tetrachlorometaxylene	80	%Rec		4/ 5/16	1

Sample : 16124012

Information : Room 5 Ballast 1

Matrix : Wipe

Weight Basis : Dry

Collected : 3/22/2016 12:25:00PM

Parameter : PCB

Lab Matrix : Swab

Prep Method: 3580A - Waste Dilution

Analysis Method: 8082A - Polychlorinated Biphenyls by GC/ECD

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
12674112	PCB-1016	2.5	ug	U	4/ 5/16	1
11104282	PCB-1221	2.5	ug	U	4/ 5/16	1
11141165	PCB-1232	2.5	ug	U	4/ 5/16	1
53469219	PCB-1242	7.1	ug	U	4/ 5/16	1
12672296	PCB-1248	2.5	ug	U	4/ 5/16	1
11097691	PCB-1254	2.5	ug	U	4/ 5/16	1
11096825	PCB-1260	2.5	ug	U	4/ 5/16	1
Surrogate Compounds:						
2051243	PCB Congener 209	62	%Rec		4/ 5/16	1
877098	Tetrachlorometaxylene	77	%Rec		4/ 5/16	1

Sample : 16124013

Information : Classroom D floor under B4

Matrix : Wipe

Weight Basis : Dry

Collected : 3/23/2016 9:05:00AM

Parameter : PCB

Lab Matrix : Swab

Prep Method: 3580A - Waste Dilution

Analysis Method: 8082A - Polychlorinated Biphenyls by GC/ECD

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
12674112	PCB-1016	2.5	ug	U	4/ 4/16	1
11104282	PCB-1221	2.5	ug	U	4/ 4/16	1
11141165	PCB-1232	2.5	ug	U	4/ 4/16	1
53469219	PCB-1242	2.5	ug	U	4/ 4/16	1
12672296	PCB-1248	2.5	ug	U	4/ 4/16	1
11097691	PCB-1254	2.5	ug	U	4/ 4/16	1
11096825	PCB-1260	2.5	ug	U	4/ 4/16	1
Surrogate Compounds:						
2051243	PCB Congener 209	91	%Rec		4/ 4/16	1
877098	Tetrachlorometaxylene	79	%Rec		4/ 4/16	1

Sample : 92O033016B1 Blank

Information : Blank

Matrix : Swab

Weight Basis : Dry

Parameter : PCB

Prep Method: 3580A - Waste Dilution

Analysis Method: 8082A - Polychlorinated Biphenyls by GC/ECD

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Target Analyte Results:						
12674112	PCB-1016	2.5	ug	U	4/ 4/16	1
11104282	PCB-1221	2.5	ug	U	4/ 4/16	1
11141165	PCB-1232	2.5	ug	U	4/ 4/16	1
53469219	PCB-1242	2.5	ug	U	4/ 4/16	1
12672296	PCB-1248	2.5	ug	U	4/ 4/16	1
11097691	PCB-1254	2.5	ug	U	4/ 4/16	1
11096825	PCB-1260	2.5	ug	U	4/ 4/16	1
Surrogate Compounds:						
2051243	PCB Congener 209	78	%Rec		4/ 4/16	1
877098	Tetrachlorometaxylene	66	%Rec		4/ 4/16	1

Sample : 92O033016L1 Lab Control Std

Information : Lab Control Standard

Matrix : Swab

Weight Basis : Dry

Parameter : PCB

Prep Method: 3580A - Waste Dilution

Analysis Method: 8082A - Polychlorinated Biphenyls by GC/ECD

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Spiked Compounds:						
12674112	PCB-1016	76	%Rec		4/ 4/16	1
11096825	PCB-1260	82	%Rec		4/ 4/16	1
Surrogate Compounds:						
2051243	PCB Congener 209	81	%Rec		4/ 4/16	1
877098	Tetrachlorometylene	72	%Rec		4/ 4/16	1

Sample : 92O033016L2 Lab Control Std#2

Information : Lab Control Standard Dup.

Matrix : Swab

Weight Basis : Dry

Parameter : PCB

Prep Method: 3580A - Waste Dilution

Analysis Method: 8082A - Polychlorinated Biphenyls by GC/ECD

Analyte Code	Analyte Name	Result	Unit	Qual.	Analysis Date	Dilution
Spiked Compounds:						
12674112	PCB-1016	76	%Rec		4/ 4/16	1
11096825	PCB-1260	82	%Rec		4/ 4/16	1
Surrogate Compounds:						
2051243	PCB Congener 209	76	%Rec		4/ 4/16	1
877098	Tetrachlorometylene	65	%Rec		4/ 4/16	1

Wood, Kim

From: Dodo, Gerald
Sent: Wednesday, April 06, 2016 12:24 PM
To: Moore, Kendall; Mullin, Michelle
Cc: Norton, Karen; Wood, Kim; Wood, Doug; Pace, Christopher
Subject: Preliminary Results for Sky Valley project, OCE-009A
Attachments: Prelim PCB SKYVALLEY.xlsx

Attached is a summary of preliminary PCB aroclor results for wipe samples collected for the Sky Valley Education Center project. Note that the data for these results have not undergone a full review yet and are subject to change. Final results after full review is expected to be available in a few weeks. Let us know if you have any questions.

Gerald Dodo
Supervisory Chemist
DWCO
USEPA Region 10 Laboratory
7411 Beach Dr. East
Port Orchard, WA 98366

Phone: (360) 871-8728
FAX: 360-871-8748

Wood, Kim

From: Wood, Kim
Sent: Friday, April 01, 2016 12:47 PM
To: Tony Morris
Subject: FW: PCB Reporting Limit for Sky Valley PCB Inspection, OCE-009A

FYI...

Kim Wood
ECC Inc.
Sample Custodian
Data Entry- Region 10 ESAT
(360)871-8792

From: Dodo, Gerald
Sent: Friday, April 01, 2016 12:05 PM
To: Moore, Kendall <moore.kendall@epa.gov>; Mullin, Michelle <Mullin.Michelle@epa.gov>
Cc: Crawford, Jennifer <Crawford.Jennifer@epa.gov>; Pace, Christopher <Pace.Christopher@epa.gov>; Norton, Karen <Norton.Karen@epa.gov>; Wood, Kim <Wood.Kim@epa.gov>
Subject: PCB Reporting Limit for Sky Valley PCB Inspection, OCE-009A

The wipe samples are proving to be challenging due to chemical interferences that are negatively affecting the GC system and high PCB levels that exceed the calibration range. As a result, the sample extracts will need to be analyzed at a higher reporting limit (RL), 2.5 ug instead of 0.25 ug/wipe. The RLs will be higher for samples with high level of PCBs detected that require further extract dilutions.

As discussed with Michelle, preliminary results would be helpful so we will try to have a summary for you sometime next week. Let me know if you have any questions.

Gerald Dodo
Supervisory Chemist
DWCO
USEPA Region 10 Laboratory
7411 Beach Dr. East
Port Orchard, WA 98366

Phone: (360) 871-8728
FAX: 360-871-8748

Wood, Kim

From: Dodo, Gerald
Sent: Friday, April 01, 2016 12:05 PM
To: Moore, Kendall; Mullin, Michelle
Cc: Crawford, Jennifer; Pace, Christopher; Norton, Karen; Wood, Kim
Subject: PCB Reporting Limit for Sky Valley PCB Inspection, OCE-009A

The wipe samples are proving to be challenging due to chemical interferences that are negatively affecting the GC system and high PCB levels that exceed the calibration range. As a result, the sample extracts will need to be analyzed at a higher reporting limit (RL), 2.5 ug instead of 0.25 ug/wipe. The RLs will be higher for samples with high level of PCBs detected that require further extract dilutions.

As discussed with Michelle, preliminary results would be helpful so we will try to have a summary for you sometime nextweek. Let me know if you have any questions.

Gerald Dodo
Supervisory Chemist
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USEPA Region 10 Laboratory
7411 Beach Dr. East
Port Orchard, WA 98366

Phone: (360) 871-8728
FAX: 360-871-8748



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10 LABORATORY
7411 Beach Dr. East
Port Orchard, Washington 98366

CHECKLIST FOR PROJECT FILES
(All files should be complete)

Initials

Date

- XW 3/24/16 Chain of Custody
- NA- 3/24/16 Cover Letter with cc list
- 3/24/16 Sample Receipt Checklist - Blue
- 3/24/16 Copy of Shipping Documents
- 3/24/16 Project Request Form
- 3/24/16 Project related E-mail Messages
- 3/24/16 Sample Log-In Report
- NA- 3/24/16 Corrective Action Notice
- XW 3/24/16 Received SOP Excursion Approval Form
- 3/24/16 Email Notification of Sample Arrival
- 3/24/16 Log In Coolers & COC's
- 3/24/16 Folders and COC copies to the following analysts:
Doug Wood

Signature:



Date:

3/24/16

Peer Review:



Date:

3/25/16

US EPA Region 10 Laboratory

Sample Login Report



3/24/2016

Page 1 of 1

OCE-009A SKY VALLEY EDUCATION CENTER
20162017B10P501E50

Contact: Michelle Mullin

<u>Sample ID</u>	<u>Sample Information</u>	<u>Received D/T</u>	<u>Matrix</u>	<u>Sample D/T</u>	<u>Lab Area</u>	<u>Parameter</u>	<u>Due Date</u>	<u>Container Codes</u>
16124000	Blank	3/24/16 13:05	Wipe	3/22/16 10:05	Organics	PCB	5/19/16	W1
16124001	Classroom D Ballast 6	3/24/16 13:05	Wipe	3/22/16 10:10	Organics	PCB	5/19/16	W1
16124002	Classroom D Floor under B6	3/24/16 13:05	Wipe	3/22/16 10:15	Organics	PCB	5/19/16	W1
16124003	Classroom D Ballast 6 cover	3/24/16 13:05	Wipe	3/22/16 10:18	Organics	PCB	5/19/16	W1
16124004	Classroom D Ballast 4	3/24/16 13:05	Wipe	3/22/16 10:23	Organics	PCB	5/19/16	W1
16124005	Classroom D floor utility cover	3/24/16 13:05	Wipe	3/22/16 10:35	Organics	PCB	5/19/16	W1
16124006	Classroom C Ballast 3 cover	3/24/16 13:05	Wipe	3/22/16 10:40	Organics	PCB	5/19/16	W1
16124007	Classroom C Ballast 3 fixture	3/24/16 13:05	Wipe	3/22/16 10:45	Organics	PCB	5/19/16	W1
16124008	Classroom C Ballast 2	3/24/16 13:05	Wipe	3/22/16 11:00	Organics	PCB	5/19/16	W1
16124009	Room 20 Pods	3/24/16 13:05	Wipe	3/22/16 11:35	Organics	PCB	5/19/16	W1
16124010	Room 14 Pods/ cover	3/24/16 13:05	Wipe	3/22/16 11:45	Organics	PCB	5/19/16	W1
16124011	Room 2 Ballast 3	3/24/16 13:05	Wipe	3/22/16 12:20	Organics	PCB	5/19/16	W1
16124012	Room 5 Ballast 1	3/24/16 13:05	Wipe	3/22/16 12:25	Organics	PCB	5/19/16	W1
16124013	Classroom D floor under B4	3/24/16 13:05	Wipe	3/23/16 9:05	Organics	PCB	5/19/16	W1

Norton, Karen

From: Dodo, Gerald
Sent: Monday, March 14, 2016 8:29 AM
To: Mullin, Michelle; Crawford, Jennifer
Cc: Norton, Karen; Wood, Kim; Pace, Christopher; Wood, Doug; Pepich, Barry
Subject: Completed - FW: SKY VALLEY EDUCATION CENTER PCB INSPECTION, OCE-009A -- FORMAL REQUEST
Attachments: R Appendix Excursion Approval Form.doc

Please see the attached SOP Excursion form which I need a project manager to fill out and return to me. Fax is okay too (360-871-8747). This form is needed to support our NELAC accreditation. If you have any questions please contact me.

Gerald Dodo
Supervisory Chemist
DWCO
USEPA Region 10 Laboratory
7411 Beach Dr. East
Port Orchard, WA 98366

Phone: (360) 871-8728
FAX: 360-871-8748

From: Crawford, Jennifer
Sent: Friday, March 11, 2016 3:21 PM
To: Pepich, Barry <Pepich.Barry@epa.gov>; Dodo, Gerald <Dodo.Gerald@epa.gov>; Pace, Christopher <Pace.Christopher@epa.gov>; Walker, Dana M. <walker.danam@epa.gov>; Reimer, Steve <Reimer.Steve@epa.gov>; Coogan, Patricia <Coogan.Patricia@epa.gov>; Norton, Karen <Norton.Karen@epa.gov>; Wood, Kim <Wood.Kim@epa.gov>; Wood, Doug <Wood.Doug@epa.gov>
Cc: Mullin, Michelle <Mullin.Michelle@epa.gov>; Moore, Kendall <moore.kendall@epa.gov>
Subject: SKY VALLEY EDUCATION CENTER PCB INSPECTION, OCE-009A -- FORMAL REQUEST

EPA Region 10 Laboratory (MEL) Formal Analytical Support Request

Project Name: Sky Valley Education Center PCB Inspection – Monroe, WA

Project Code: OCE-009A

Account Code: 20162017B10P501E50

Sample Numbers: 16124000-4049 for the week of March 20-26, 2016

	Criminal	Superfund Remedial	Compliance Monitoring	Drinking Water Programs	Surface Water Protection	RCRA CA	Brownfields	Other (specify)
Program / Project*			X - TSCA					
NPM*	OECA	OSWER	OECA	OW	OW	OSWER	OSWER	

* 'X' the Program/ Project then change 'frequent' NPM below if necessary. For compliance monitoring/criminal projects, also write in the specific data use such as RCRA, NPDES, TSCA, etc. after the 'X'. For surface water, specify 'TMDL' after the 'X' if applicable.

RAP ANALYSES REQUESTED:

PARAMETER OR GROUP OF COMPOUNDS	METHOD	REPORTING LIMITS	# Wipe Samples*
PCBs	EPA 3580A + 8082	Ug/wipe - awaiting QAPP for criteria	24

*MEL will be providing hexane wipes for the project.

Sampling/Shipping Dates: Sampling 3/21-25/2016 with lab delivery expected on 3/25. Scribe will not be used, as a Region 5 inspector is conducting the sample collection.

Turnaround Time Requested: Standard 8 weeks. Preliminary results within 2 weeks from receipt of samples.

Q.A. Chemist Reviewing QAPP: Region 5 QAPP / Jennifer Crawford

Final Data Will Be Sent to: Michelle Mullin (R10), Kendall Moore (R5 Inspector)

Who Reviews?: MEL for MEL

Project Manager: Michelle Mullin Phone: 260-553-1616

Has this project been previously requested/if so when? No.

Comments: A QAPP has not yet been submitted for this sampling event. MEL has been requested to provide the sampling equipment and associated supplies for the inspection sample collection; an example completed R10 COC and labels will be provided.

Requested by: Jennifer Crawford Date: March 11, 2016
 Chemist/RSCC
 Phone: (206) 553-6261
Crawford.Jennifer@epa.gov

BELOW FOR LAB USE ONLY

Accepted Parameters: PCBs (EPA).

Rejected Parameters: None.

Comments:

Transmitted by: Gerald Dodo Date: 3/14/2016

Wood, Kim

From: Crawford, Jennifer
Sent: Friday, March 11, 2016 3:21 PM
To: Pepich, Barry; Dodo, Gerald; Pace, Christopher; Walker, Dana M.; Reimer, Steve; Coogan, Patricia; Norton, Karen; Wood, Kim; Wood, Doug
Cc: Mullin, Michelle; Moore, Kendall
Subject: SKY VALLEY EDUCATION CENTER PCB INSPECTION, OCE-009A -- FORMAL REQUEST

EPA Region 10 Laboratory (MEL)
Formal Analytical Support Request

Project Name: Sky Valley Education Center PCB Inspection – Monroe, WA

Project Code: OCE-009A

Account Code: 20162017B10P501E50

Sample Numbers: 16124000-4049 for the week of March 20-26, 2016

	Criminal	Superfund Remedial	Compliance Monitoring	Drinking Water Programs	Surface Water Protection	RCRA CA	Brownfields	Other (specify)
Program / Project*			X - TSCA					
NPM*	OECA	OSWER	OECA	OW	OW	OSWER	OSWER	

* 'X' the Program/ Project then change 'frequent' NPM below if necessary. For compliance monitoring/criminal projects, also write in the specific data use such as RCRA,

NPDES, TSCA, etc. after the 'X'. For surface water, specify 'TMDL' after the 'X' if applicable.

RAP ANALYSES REQUESTED:

PARAMETER OR GROUP OF COMPOUNDS	METHOD	REPORTING LIMITS	# Wipe Samples*
PCBs	EPA 3580A + 8082	Ug/wipe - awaiting QAPP for criteria	24

*MEL will be providing hexane wipes for the project.

Sampling/Shipping Dates: Sampling 3/21-25/2016 with lab delivery expected on 3/25. Scribe will not be used, as a Region 5 inspector is conducting the sample collection.

Turnaround Time Requested: Standard 8 weeks. Preliminary results within 2 weeks from receipt of samples.

Q.A. Chemist Reviewing QAPP: Region 5 QAPP / Jennifer Crawford

Final Data Will Be Sent to: Michelle Mullin (R10), Kendall Moore (R5 Inspector)

Who Reviews?: MEL for MEL

Project Manager: Michelle Mullin Phone: 260-553-1616

Has this project been previously requested/if so when? No.

Comments: A QAPP has not yet been submitted for this sampling event. MEL has been requested to provide the sampling equipment and associated supplies for the inspection sample collection; an example completed R10 COC and labels will be provided.

Requested by: Jennifer Crawford
Chemist/RSCC
Phone: (206) 553-6261
Crawford.Jennifer@epa.gov

BELOW FOR LAB USE ONLY

Accepted Parameters:

Rejected Parameters:

Comments:

Transmitted by: _____ Date: _____

Norton, Karen

From: Norton, Karen
Sent: Thursday, March 24, 2016 2:03 PM
To: Gerald Dodo; Christopher Pace; Doug Wood; Kim Wood
Cc: Jennifer Crawford; Moore, Kendall; Mullin, Michelle
Subject: Sample Arrival- Sky Valley Education Center PCB Inspection
Attachments: SHARPSANNER_20160324_134326.pdf

14 wipes were hand delivered today for PCB analysis

Karen Norton
TechLaw, Inc.
Data Entry- Region 10 ESAT
(360) 871-8760



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10 LABORATORY
7411 Beach Dr. East
Port Orchard, Washington 98366

LABORATORY SAMPLE RECEIPT CHECKLIST

PROJECT CODE: OCE-
009A

PROJECT NAME: SKY
Valley

- Screen the outside of the sample cooler for possible radiation.
- Note if custody seals are intact on the outside of the sample cooler.
- NA Obtain cooler temperature with a temperature probe. Record temperatures above 6° C on the reserve side of this form. A Corrective Action Notice (CAN) must be written if the samples in the cooler require preservation at 6° C or cooler.
Not Ice
- WA Contact EPA R10 Lab ESHO if samples are packed in vermiculite.
- Screen the inside of the cooler for possible radiation.
- Verify required sample paperwork is present and complete: Sample Custody & Analysis Required Form or USEPA Contract Laboratory Program Generic Chain of Custody. (COC) Note any missing information or paperwork discrepancies on the reverse side of this form as documentation for a CAN.
- Verify all samples are present by checking the containers against the COC.
- Verify that there is a container for each type of analysis requested and sample container unique ID's are on all containers.
- NA Place color-coded sticker dots on each of the sample containers (only exception, water samples for VOA.)
- NA If criminal samples, place an Evidence Sticker on each sample container without covering sample information.
- NA If criminal samples, pictures taken of outside of cooler with custody seals, inside of cooler (packing), and samples with chain of custody. Photograph any broken or damaged samples.
- If samples are to be analyzed for PCBs or Asbestos, place the appropriate warning sticker on each sample container without covering sample information.
- Contact an analyst if water samples are received for general chemistry, metals, or microbiology analyses (so the pH can be checked and/or analysis can be started immediately if necessary).
- Complete the custody section of the COC with your signature, date and time received. Indicate samples were "GOOD" if ice present, none were broken, and none were leaking. Indicate the condition of the custody seals. If any sample was not present or any corrections need to be made to the sample paperwork, draw one line through the line item to be changed and initial and date the correction. **KEEP ALL CHANGES TO SAMPLE PAPERWORK TO A MINIMUM. ONLY WHEN NECESSARY**

SHOULD CHANGES BE MADE BY SAMPLE RECEIPT STAFF.

NA

Make notes of any paperwork or sample bottle discrepancies on the lines at the bottom of this form. If necessary, complete a CAN when paperwork has been delivered to data entry.

NA

Did we receive shipping information for returning non-EPA coolers? If not, document it with a CAN.

1

Storage: Load the samples on a cart and take them to either cooler #57 if the samples are Non-Superfund, cooler #61 if the samples are Superfund, or to a freezer in the warehouse or swing-lab building if samples should be kept frozen. If samples are for criminal evidence, two persons must be present to place them in a criminal custody refrigerator in room #77. Record the placement of the samples on the criminal sign in/out log.

1

Deliver the sample paperwork to data entry for computer login and paperwork distribution.

Signature:

Kraeser

Date: 3/24/16

*EPA Signature:

Date: _____

Required only when the contractor submitting samples to the EPA R10 Laboratory is the same contractor for the R10 ESAT when performing sample receipt.

NOTES

Number of Coolers Received: 1

Number of Chains of Custody Received: 1



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10 LABORATORY
7411 Beach Dr. East
Port Orchard, Washington 98366

DATA ENTRY TRACKING FORM

**SECTION #1 – DELIVERY TO DATA ENTRY
(TO BE COMPLETED BY THE PERSON DELIVERING THE DATA PACKAGE)**

Project Name: Sky Valley	Project Code: OCE-009A
Analysis Type: PCB	Matrix: Wipe
Sample Numbers: week 12	Delivered by: Chris Pace
Date: 4/19/16	Time: 1200

**SECTION #2 – DATA ENTRY
(TO BE COMPLETED BY ESAT DATA ENTRY TECHNICIANS)**

IN:	OUT:
Date: 4/20/16	Date: 4/20/16
Time: 11:20	Time: 1205
By:	By:

**SECTION #3 – EPA DATA ENTRY VERIFICATION
(TO BE COMPLETED BY THE EPA DATA VERIFIER)**

Date: 4.20.16	Time: 1:45
By:	

Check here if corrections needed →

**SECTION #4 – DATA ENTRY MODIFICATIONS (IF APPLICABLE)
(TO BE COMPLETED BY ESAT DATA ENTRY TECHNICIANS)**

IN:	OUT:
Date:	Date:
Time:	Time:
By:	By:

SECTION #5 – EPA DATA ENTRY VERIFICATION #2 (IF APPLICABLE)

(TO BE COMPLETED BY THE EPA DATA VERIFIER)

Date:

Time:

By:

**SECTION #6 – EPA MICROBIOLOGY DATA PACKAGE REVIEW (IF APPLICABLE)
(TO BE COMPLETED BY THE MICROBIOLOGY SECTION LEAD OR ALTERNATE)**

Data Package Delivered to Microbiology Lead	Date:	By:
Data Package Reviewed & Approved	Date:	By:

**SECTION #7 – FINAL REPORT GENERATION AND ELECTRONIC REPORTING OF
DATA (TO BE COMPLETED BY ESAT DATA ENTRY TECHNICIANS)**

Final report generated and forwarded electronically with the Data Release Form and QA Memorandum to the Lab Director or Chemistry Supervisor. Place a hardcopy for signature in the Lab Director's or Chemistry Supervisor's inbox.

Delivered to:	<i>G. Dado</i>
Date:	<i>4/20/16</i>

**SECTION #8-APPROVAL & RELEASE BY LAB DIRECTOR OR CHEMISTRY
SUPERVISOR**Revisions Required? YES *NO*

If no, complete approval area at bottom of form. If yes, source of problem:

Document(s) Requiring Revision:

- Data Release Form
- QA Memo
- Final Report of Data

Date returned to data entry to coordinate revisions:

Revisions Made By:**Date:**

Data Reviewer:

Data Entry:

Re-verified by EPA:

Resubmitted to Lab Director or
Chemistry Supervisor:

Approved by Lab Director or Chemistry Supervisor:

4-21-16

US EPA Region 10 Laboratory

Multi Analyte Verification Report



4/20/2016

Page 1 of 23

Project Code:	OCE-009A	Parameter:	PCB	Sample ID:	16124000
Project Name:	SKY VALLEY EDUCATION CENTER			Type:	Sample
Project Officer:	Michelle Mullin			Matrix:	Wipe/Swab
Account Code:	20162017B10P501E50			Container ID :	
Collected:	3/22/16	Prepped:	3/30/16	Released:	
Received:	3/24/16			Reviewed:	4/19/16 CP
VERIFIED	<u>4/20/16</u>	<u>WR</u>		Promised:	
				Analysis Seq : 29	

Initial Amount:	Weight Basis:	Dry	Suffix:
Final Amount:	100 mL		
Dilution Factor:	1		
Method:	8082A Polychlorinated Biphenyls by GC/ECD		
Anl. Batch:	A-8082A-MINERVA-DWO-040416		
Analyzed: 4/4/16 9:19 pm			
%Solids: * 100			

	Analyte Code	Analyte Name	Res Type	Result Units	QLfr	RL
1	877098	Tetrachlorometaxylene	Surrogate	72 %Rec		
2	11104282	PCB-1221	Target	2.5 ug	U	2.5ug
3	11141165	PCB-1232	Target	2.5 ug	U	2.5ug
4	12674112	PCB-1016	Target	2.5 ug	U	2.5ug
5	53469219	PCB-1242	Target	2.5 ug	U	2.5ug
6	12672296	PCB-1248	Target	2.5 ug	U	2.5ug
7	11097691	PCB-1254	Target	2.5 ug	U	2.5ug
8	11096825	PCB-1260	Target	2.5 ug	U	2.5ug
9	2051243	PCB Congener 209	Surrogate	92 %Rec		

16124000 Sample

US EPA Region 10 Laboratory

Multi Analyte Verification Report



4/20/2016

Page 2 of 23

Project Code: OCE-009A	Parameter: PCB	Sample ID: 16124001
Project Name: SKY VALLEY EDUCATION CENTER		Type: Sample
Project Officer: Michelle Mullin		Matrix: Wipe/Swab
Account Code: 20162017B10P501E50		Container ID :
Collected: 3/22/16	Prepped: 3/30/16	Released:
Received: 3/24/16		Reviewed: 4/19/16 CP
VERIFIED <u>4/20/16</u> <u>WMP</u>		Promised:
		Analysis Seq : 38

Initial Amount:	Weight Basis: Dry	Suffix:
Final Amount: 100 mL		%Solids: * 100
Dilution Factor: 1	Analyzed: 4/5/16 2:32 am	
Method: 8082A Polychlorinated Biphenyls by GC/ECD		
Anl. Batch: A-8082A-MINERVA-DWO-040516		

	Analyte Code	Analyte Name	Res Type	Result Units	Qlfr	RL
1	877098	Tetrachlorometaxylene	Surrogate	67 %Rec		
2	11104282	PCB-1221	Target	2.5 ug	U	2.5ug
3	11141165	PCB-1232	Target	2.5 ug	U	2.5ug
4	12674112	PCB-1016	Target	2.5 ug	U	2.5ug
6	12672296	PCB-1248	Target	2.5 ug	U	2.5ug
7	11097691	PCB-1254	Target	2.5 ug	U	2.5ug
8	11096825	PCB-1260	Target	2.5 ug	U	2.5ug
9	2051243	PCB Congener 209	Surrogate	69 %Rec		

16124001 Sample

US EPA Region 10 Laboratory

Multi Analyte Verification Report



4/20/2016

Page 3 of 23

Project Code:	OCE-009A	Parameter:	PCB	Sample ID:	16124001
Project Name:	SKY VALLEY EDUCATION CENTER			Type:	Sample
Project Officer:	Michelle Mullin			Matrix:	Wipe/Swab
Account Code:	20162017B10P501E50			Container ID :	

Collected: 3/22/16 Prepped: 3/30/16
 Received: 3/24/16

Released:
 Reviewed: 4/19/16 CP
 Promised:

VERIFIED 4/20/16 WZ

Analysis Seq : 53

Initial Amount:	Weight Basis:	Dry	Suffix:	D1	
Final Amount:	100 mL			%Solids:	* 100
Dilution Factor:	10			Analyzed:	4/5/16 10:45 am
Method:	8082A Polychlorinated Biphenyls by GC/ECD				
Anl. Batch:	A-8082A-MINERVA-DWO-040516				

	<u>Analyte Code</u>	<u>Analyte Name</u>	<u>Res Type</u>	<u>Result Units</u>	<u>Qlfr</u>	<u>RL</u>
5	53469219	PCB-1242	Target	170 ug	25ug	

16124001 Sample

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Project Code:	OCE-009A	Parameter:	PCB	Sample ID:	16124002
Project Name:	SKY VALLEY EDUCATION CENTER			Type:	Sample
Project Officer:	Michelle Mullin			Matrix:	Wipe/Swab
Account Code:	20162017B10P501E50			Container ID :	
Collected:	3/22/16	Prepped:	3/30/16	Released:	
Received:	3/24/16			Reviewed:	4/19/16 CP
VERIFIED	<u>4/20/16</u>	<u>WR</u>		Promised:	
				Analysis Seq : 30	

Initial Amount:	Weight Basis:	Dry	Suffix:
Final Amount:	100 mL		
Dilution Factor:	1		
Method:	8082A Polychlorinated Biphenyls by GC/ECD		
Anl. Batch:	A-8082A-MINERVA-DWO-040416		
Analyzed: 4/4/16 9:54 pm %Solids: * 100			

	Analyte Code	Analyte Name	Res Type	Result Units	Qlfr	RL
1	877098	Tetrachloromethylene	Surrogate	80 %Rec		
2	11104282	PCB-1221	Target	2.5 ug	U	2.5ug
3	11141165	PCB-1232	Target	2.5 ug	U	2.5ug
4	12674112	PCB-1016	Target	2.5 ug	U	2.5ug
5	53469219	PCB-1242	Target	2.5 ug	U	2.5ug
6	12672296	PCB-1248	Target	2.5 ug	U	2.5ug
7	11097691	PCB-1254	Target	2.5 ug	U	2.5ug
8	11096825	PCB-1260	Target	2.5 ug	U	2.5ug
9	2051243	PCB Congener 209	Surrogate	96 %Rec		

16124002 Sample

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Project Code:	OCE-009A	Parameter:	PCB	Sample ID:	16124003
Project Name:	SKY VALLEY EDUCATION CENTER			Type:	Sample
Project Officer:	Michelle Mullin			Matrix:	Wipe/Swab
Account Code:	20162017B10P501E50			Container ID :	
Collected:	3/22/16	Prepped:	3/30/16	Released:	
Received:	3/24/16			Reviewed:	4/19/16 CP
VERIFIED	<u>4/20/16</u>	<u>WMS</u>		Promised:	
				Analysis Seq : 46	

Initial Amount:	Weight Basis:	Dry	Suffix:		
Final Amount:	100 mL				
Dilution Factor:	1				
Method:	8082A	Polychlorinated Biphenyls by GC/ECD			
Anl. Batch:	A-8082A-MINERVA-DWO-040516				
Analyte Code	Analyte Name	Res Type	Result Units	Qlfr	RL

1	877098 Tetrachloromethaxylene	Surrogate	76 %Rec		
2	11104282 PCB-1221	Target	2.5 ug	U	2.5ug
3	11141165 PCB-1232	Target	2.5 ug	U	2.5ug
4	12674112 PCB-1016	Target	2.5 ug	U	2.5ug
6	12672296 PCB-1248	Target	2.5 ug	U	2.5ug
7	11097691 PCB-1254	Target	2.5 ug	U	2.5ug
8	11096825 PCB-1260	Target	2.5 ug	U	2.5ug
9	2051243 PCB Congener 209	Surrogate	No Unit	NA	

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Project Code:	OCE-009A	Parameter:	PCB	Sample ID:	16124003
Project Name:	SKY VALLEY EDUCATION CENTER			Type:	Sample
Project Officer:	Michelle Mullin			Matrix:	Wipe/Swab
Account Code:	20162017B10P501E50			Container ID :	
Collected:	3/22/16	Prepped:	3/30/16	Released:	
Received:	3/24/16			Reviewed:	4/19/16 CP
VERIFIED <u>4/20/16</u> <u>u/w</u>				Promised:	
Initial Amount:	Weight Basis: Dry			Suffix:	D1
Final Amount:	100 mL			%Solids:	* 100
Dilution Factor:	100			Analyzed:	4/5/16 11:55 am
Method:	8082A	Polychlorinated Biphenyls by GC/ECD			
Anl. Batch:	A-8082A-MINERVA-DWO-040516				

	<u>Analyte Code</u>	<u>Analyte Name</u>	<u>Res Type</u>	<u>Result Units</u>	<u>Qlfr</u>	<u>RL</u>
5	53469219	PCB-1242	Target	9300 ug		250ug

16124003 Sample

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Project Code:	OCE-009A	Parameter:	PCB	Sample ID:	16124004
Project Name:	SKY VALLEY EDUCATION CENTER			Type:	Sample
Project Officer:	Michelle Mullin			Matrix:	Wipe/Swab
Account Code:	20162017B10P501E50			Container ID :	

Collected:	3/22/16	Prepped:	3/30/16	Released:	
Received:	3/24/16			Reviewed:	4/19/16 CP

VERIFIED 4/20/16 VMR

Analysis Seq : 6

Initial Amount:	Weight Basis:	Dry	Suffix:
Final Amount:	100 mL		
Dilution Factor:	1		
Method:	8082A Polychlorinated Biphenyls by GC/ECD		
Anl. Batch:	A-8082A-MINERVA-DWO-041316		
Analyzed: 4/13/16 11:55 am			
%Solids: * 100			

Analyte Code	Analyte Name	Res Type	Result Units	QLfr	RL
8 11096825	PCB-1260	Target	15 ug	2.5ug	

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Project Code:	OCE-009A	Parameter:	PCB	Sample ID:	16124004
Project Name:	SKY VALLEY EDUCATION CENTER			Type:	Sample
Project Officer:	Michelle Mullin			Matrix:	Wipe/Swab
Account Code:	20162017B10P501E50			Container ID :	
Collected:	3/22/16	Prepped:	3/30/16	Released:	
Received:	3/24/16			Reviewed:	4/19/16 CP
VERIFIED	<u>4/20/16</u>	<u>WMA</u>		Promised:	
				Analysis Seq : 42	

Initial Amount:	Weight Basis:	Dry	Suffix:
Final Amount:	100 mL		%Solids: * 100
Dilution Factor:	1	Analyzed: 4/5/16 4:50 am	
Method:	8082A	Polychlorinated Biphenyls by GC/ECD	
Anl. Batch:	A-8082A-MINERVA-DWO-040516		

	Analyte Code	Analyte Name	Res Type	Result Units	Qlfr	RL
1	877098	Tetrachlorometaxylene	Surrogate	67 %Rec		
2	11104282	PCB-1221	Target	2.5 ug	U	2.5ug
3	11141165	PCB-1232	Target	2.5 ug	U	2.5ug
4	12674112	PCB-1016	Target	2.5 ug	U	2.5ug
5	53469219	PCB-1242	Target	13 ug		2.5ug
6	12672296	PCB-1248	Target	2.5 ug	U	2.5ug
7	11097691	PCB-1254	Target	2.5 ug	U	2.5ug
9	2051243	PCB Congener 209	Surrogate	81 %Rec		

16124004 Sample

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Project Code:	OCE-009A	Parameter:	PCB	Sample ID:	16124005
Project Name:	SKY VALLEY EDUCATION CENTER			Type:	Sample
Project Officer:	Michelle Mullin			Matrix:	Wipe/Swab
Account Code:	20162017B10P501E50			Container ID :	
Collected:	3/22/16	Prepped:	3/30/16	Released:	
Received:	3/24/16			Reviewed:	4/19/16 CP
VERIFIED	<u>4/20/16</u>	<u>WHD</u>		Promised:	
				Analysis Seq : 43	

Initial Amount:	Weight Basis:	Dry	Suffix:		
Final Amount:	100 mL				
Dilution Factor:	1				
Method:	8082A	Polychlorinated Biphenyls by GC/ECD			
Anl. Batch:	A-8082A-MINERVA-DWO-040516				
Analyte Code	Analyte Name	Res_Type	Result_Units	Qlfr	RL

1	877098 Tetrachlorometaxylene	Surrogate	68 %Rec		
2	11104282 PCB-1221	Target	2.5 ug	U	2.5ug
3	11141165 PCB-1232	Target	2.5 ug	U	2.5ug
4	12674112 PCB-1016	Target	2.5 ug	U	2.5ug
5	53469219 PCB-1242	Target	25 ug		2.5ug
6	12672296 PCB-1248	Target	2.5 ug	U	2.5ug
7	11097691 PCB-1254	Target	2.5 ug	U	2.5ug
8	11096825 PCB-1260	Target	2.5 ug	U	2.5ug
9	2051243 PCB Congener 209	Surrogate	87 %Rec		

16124005 Sample

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Project Code:	OCE-009A	Parameter:	PCB	Sample ID:	16124006
Project Name:	SKY VALLEY EDUCATION CENTER			Type:	Sample
Project Officer:	Michelle Mullin			Matrix:	Wipe/Swab
Account Code:	20162017B10P501E50			Container ID :	
Collected:	3/22/16	Prepped:	3/30/16	Released:	
Received:	3/24/16			Reviewed:	4/19/16 CP
VERIFIED	<u>4/20/16</u>	<u>VMB</u>		Promised:	
				Analysis Seq : 33	

Initial Amount:	Weight Basis:	Dry	Suffix:
Final Amount:	100 mL		%Solids: * 100
Dilution Factor:	1	Analyzed:	4/4/16 11:38 pm
Method:	8082A	Polychlorinated Biphenyls by GC/ECD	
Anl. Batch:	A-8082A-MINERVA-DWO-040416		

	Analyte Code	Analyte Name	Res Type	Result Units	Qlfr	RL
1	877098	Tetrachlorometaxylene	Surrogate	68 %Rec		
2	11104282	PCB-1221	Target	2.5 ug	U	2.5ug
3	11141165	PCB-1232	Target	2.5 ug	U	2.5ug
4	12674112	PCB-1016	Target	2.5 ug	U	2.5ug
5	53469219	PCB-1242	Target	7.3 ug		2.5ug
6	12672296	PCB-1248	Target	2.5 ug	U	2.5ug
7	11097691	PCB-1254	Target	2.5 ug	U	2.5ug
8	11096825	PCB-1260	Target	2.5 ug	U	2.5ug
9	2051243	PCB Congener 209	Surrogate	68 %Rec		

16124006 Sample

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Project Code:	OCE-009A	Parameter:	PCB	Sample ID:	16124007
Project Name:	SKY VALLEY EDUCATION CENTER			Type:	Sample
Project Officer:	Michelle Mullin			Matrix:	Wipe/Swab
Account Code:	20162017B10P501E50			Container ID :	
Collected:	3/22/16	Prepped:	3/30/16	Released:	
Received:	3/24/16			Reviewed:	4/19/16 CP
VERIFIED <u>4/20/16</u> <u>WR</u>				Promised:	
				Analysis Seq : 5	

Initial Amount:	Weight Basis:	Dry	Suffix:
Final Amount:	100 mL		
Dilution Factor:	1		
Method:	8082A Polychlorinated Biphenyls by GC/ECD		
Anl. Batch:	A-8082A-MINERVA-DWO-041316		
Analyzed: 4/13/16 11:20 am			

8	Analyte Code	Analyte Name	Res_Type	Result_Units	Qlfr	RL
	11096825	PCB-1260	Target	6.1 ug		2.5ug

16124007 Sample

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Project Code:	OCE-009A	Parameter:	PCB	Sample ID:	16124007
Project Name:	SKY VALLEY EDUCATION CENTER			Type:	Sample
Project Officer:	Michelle Mullin			Matrix:	Wipe/Swab
Account Code:	20162017B10P501E50			Container ID :	

Collected: 3/22/16 Prepped: 3/30/16 Released:

Received: 3/24/16 Reviewed: 4/19/16 CP

Promised:

VERIFIED 4/29/16 WMB

Analysis Seq : 44

Initial Amount:	Weight Basis:	Dry	Suffix:
Final Amount:	100 mL		
Dilution Factor:	1		
Method:	8082A Polychlorinated Biphenyls by GC/ECD		
Anl. Batch:	A-8082A-MINERVA-DWO-040516		

Analyzed: 4/5/16 6:00 am %Solids: * 100

Analyte Code	Analyte Name	Res Type	Result Units	Qlfr	RL
1	877098 Tetrachlorometaxylene	Surrogate	69 %Rec		
2	11104282 PCB-1221	Target	2.5 ug	U	2.5ug
3	11141165 PCB-1232	Target	2.5 ug	U	2.5ug
4	12674112 PCB-1016	Target	2.5 ug	U	2.5ug
6	12672296 PCB-1248	Target	2.5 ug	U	2.5ug
7	11097691 PCB-1254	Target	2.5 ug	U	2.5ug
9	2051243 PCB Congener 209	Surrogate	91 %Rec		

16124007 Sample

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Project Code:	OCE-009A	Parameter:	PCB	Sample ID:	16124007
Project Name:	SKY VALLEY EDUCATION CENTER			Type:	Sample
Project Officer:	Michelle Mullin			Matrix:	Wipe/Swab
Account Code:	20162017B10P501E50			Container ID :	

Collected:	3/22/16	Prepped:	3/30/16	Released:	
Received:	3/24/16			Reviewed:	4/19/16 CP

VERIFIED 4/20/16 LWZ Analysis Seq : 54

Initial Amount:	Weight Basis:	Dry	Suffix:	D1	
Final Amount:	100 mL			%Solids:	* 100
Dilution Factor:	10			Analyzed:	4/5/16 11:20 am
Method:	8082A	Polychlorinated Biphenyls by GC/ECD			
Anl. Batch:	A-8082A-MINERVA-DWO-040516				

5	Analyte Code	Analyte Name	Res Type	Result Units	Qlfr	RL
	53469219	PCB-1242	Target	240 ug		25ug

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Project Code:	OCE-009A	Parameter:	PCB	Sample ID:	16124008
Project Name:	SKY VALLEY EDUCATION CENTER			Type:	Sample
Project Officer:	Michelle Mullin			Matrix:	Wipe/Swab
Account Code:	20162017B10P501E50			Container ID :	
Collected:	3/22/16	Prepped:	3/30/16	Released:	
Received:	3/24/16			Reviewed:	4/19/16 CP
				Promised:	
VERIFIED <u>4/20/16</u> <u>WR</u>				Analysis Seq : 32	

Initial Amount:	Weight Basis:	Dry	Suffix:	
Final Amount:	100 mL			
Dilution Factor:	1			
Method:	8082A	Analyzed: 4/4/16 11:04 pm		
Anl. Batch:	A-8082A-MINERVA-DWO-040416			
%Solids: * 100				

Analyte Code	Analyte Name	Res Type	Result Units	Qlfr	RL
1	877098 Tetrachlorometaylene	Surrogate	59 %Rec		
2	11104282 PCB-1221	Target	2.5 ug	U	2.5ug
3	11141165 PCB-1232	Target	2.5 ug	U	2.5ug
4	12674112 PCB-1016	Target	2.5 ug	U	2.5ug
5	53469219 PCB-1242	Target	7.1 ug		2.5ug
6	12672296 PCB-1248	Target	2.5 ug	U	2.5ug
7	11097691 PCB-1254	Target	2.5 ug	U	2.5ug
8	11096825 PCB-1260	Target	2.5 ug	U	2.5ug
9	2051243 PCB Congener 209	Surrogate	69 %Rec		

16124008 Sample

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Project Code:	OCE-009A	Parameter:	PCB	Sample ID:	16124009
Project Name:	SKY VALLEY EDUCATION CENTER			Type:	Sample
Project Officer:	Michelle Mullin			Matrix:	Wipe/Swab
Account Code:	20162017B10P501E50			Container ID :	
Collected:	3/22/16	Prepped:	3/30/16	Released:	
Received:	3/24/16			Reviewed:	4/19/16 CP
				Promised:	
VERIFIED <u>4/20/16</u> <u>MAR</u>				Analysis Seq : 34	

Initial Amount:	Weight Basis:	Dry	Suffix:		
Final Amount:	100 mL				
Dilution Factor:	1				
Method:	8082A Polychlorinated Biphenyls by GC/ECD				
Anl. Batch:	A-8082A-MINERVA-DWO-040516				
Analyte Code	Analyte Name	Res Type	Result Units	Qlfir	RL

1	877098 Tetrachlorometaxylene	Surrogate	69 %Rec		
2	11104282 PCB-1221	Target	2.5 ug	U	2.5ug
3	11141165 PCB-1232	Target	2.5 ug	U	2.5ug
4	12674112 PCB-1016	Target	2.5 ug	U	2.5ug
5	53469219 PCB-1242	Target	2.5 ug	U	2.5ug
6	12672296 PCB-1248	Target	2.5 ug	U	2.5ug
7	11097691 PCB-1254	Target	2.5 ug	U	2.5ug
8	11096825 PCB-1260	Target	2.5 ug	U	2.5ug
9	2051243 PCB Congener 209	Surrogate	69 %Rec		

16124009 Sample

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Project Code:	OCE-009A	Parameter:	PCB	Sample ID:	16124010
Project Name:	SKY VALLEY EDUCATION CENTER			Type:	Sample
Project Officer:	Michelle Mullin			Matrix:	Wipe/Swab
Account Code:	20162017B10P501E50			Container ID :	
Collected:	3/22/16	Prepped:	3/30/16	Released:	
Received:	3/24/16			Reviewed:	4/19/16 CP
VERIFIED <u>4/20/16</u> <u>MMZ</u>				Promised:	
				Analysis Seq : 39	

Initial Amount:	Weight Basis:	Dry	Suffix:		
Final Amount:	100 mL				
Dilution Factor:	1				
Method:	8082A	Polychlorinated Biphenyls by GC/ECD			
Anl. Batch:	A-8082A-MINERVA-DWO-040516				
Analyte Code	Analyte Name	Res Type	Result Units	Qlfr	RL

1	877098 Tetrachlorometaxylene	Surrogate	71 %Rec		
2	11104282 PCB-1221	Target	2.5 ug	U	2.5ug
3	11141165 PCB-1232	Target	2.5 ug	U	2.5ug
4	12674112 PCB-1016	Target	2.5 ug	U	2.5ug
5	53469219 PCB-1242	Target	5.4 ug		2.5ug
6	12672296 PCB-1248	Target	2.5 ug	U	2.5ug
7	11097691 PCB-1254	Target	2.5 ug	U	2.5ug
8	11096825 PCB-1260	Target	2.5 ug	U	2.5ug
9	2051243 PCB Congener 209	Surrogate	61 %Rec		

16124010 Sample

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Project Code:	OCE-009A	Parameter:	PCB	Sample ID:	16124011
Project Name:	SKY VALLEY EDUCATION CENTER			Type:	Sample
Project Officer:	Michelle Mullin			Matrix:	Wipe/Swab
Account Code:	20162017B10P501E50			Container ID :	

Collected:	3/22/16	Prepped:	3/30/16	Released:	
Received:	3/24/16			Reviewed:	4/19/16 CP

VERIFIED 4/20/16 WR

Analysis Seq : 4

Initial Amount:	Weight Basis:	Dry	Suffix:
Final Amount:	100 mL		
Dilution Factor:	1		
Method:	8082A Polychlorinated Biphenyls by GC/ECD		
Anl. Batch:	A-8082A-MINERVA-DWO-041316		

Analyzed: 4/13/16 10:46 am %Solids: *100

<u>Analyte Code</u>	<u>Analyte Name</u>	<u>Res Type</u>	<u>Result Units</u>	<u>Qlfr</u>	<u>RL</u>
8 11096825	PCB-1260	Target	4.3 ug		2.5ug

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Project Code:	OCE-009A	Parameter:	PCB	Sample ID:	16124011
Project Name:	SKY VALLEY EDUCATION CENTER			Type:	Sample
Project Officer:	Michelle Mullin			Matrix:	Wipe/Swab
Account Code:	20162017B10P501E50			Container ID :	
Collected:	3/22/16	Prepped:	3/30/16	Released:	
Received:	3/24/16			Reviewed:	4/19/16 CP
VERIFIED	<u>4/20/16</u>	<u>UR</u>		Promised:	
				Analysis Seq : 40	
Initial Amount:	Weight Basis: Dry			Suffix:	
Final Amount:	100 mL			%Solids: * 100	
Dilution Factor:	1			Analyzed: 4/5/16 3:41 am	
Method:	8082A Polychlorinated Biphenyls by GC/ECD				
Anl. Batch:	A-8082A-MINERVA-DWO-040516				

Analyte Code	Analyte Name	Res Type	Result Units	Qlfr	RL
1	877098 Tetrachlorometaylene	Surrogate	80 %Rec		
2	11104282 PCB-1221	Target	2.5 ug	U	2.5ug
3	11141165 PCB-1232	Target	2.5 ug	U	2.5ug
4	12674112 PCB-1016	Target	2.5 ug	U	2.5ug
5	53469219 PCB-1242	Target	5.3 ug		2.5ug
6	12672296 PCB-1248	Target	2.5 ug	U	2.5ug
7	11097691 PCB-1254	Target	2.5 ug	U	2.5ug
9	2051243 PCB Congener 209	Surrogate	56 %Rec		

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Project Code: OCE-009A Parameter: PCB Sample ID: 16124012
 Project Name: SKY VALLEY EDUCATION CENTER Type: Sample
 Project Officer: Michelle Mullin Matrix: Wipe/Swab
 Account Code: 20162017B10P501E50 Container ID :

Collected: 3/22/16 Prepped: 3/30/16 Released:
 Received: 3/24/16 Reviewed: 4/19/16 CP
 Promised:

VERIFIED 4/20/16 WR

Analysis Seq : 41

Initial Amount:	Weight Basis: Dry	Suffix:
Final Amount: 100 mL		%Solids: * 100
Dilution Factor: 1	Analyzed: 4/5/16 4:15 am	
Method: 8082A Polychlorinated Biphenyls by GC/ECD		
Anl. Batch: A-8082A-MINERVA-DWO-040516		

	<u>Analyte Code</u>	<u>Analyte Name</u>	<u>Res Type</u>	<u>Result Units</u>	<u>Qlfr</u>	<u>RL</u>
1	877098	Tetrachlorometaxylen	Surrogate	77 %Rec		
2	11104282	PCB-1221	Target	2.5 ug	U	2.5ug
3	11141165	PCB-1232	Target	2.5 ug	U	2.5ug
4	12674112	PCB-1016	Target	2.5 ug	U	2.5ug
5	53469219	PCB-1242	Target	7.1 ug		2.5ug
6	12672296	PCB-1248	Target	2.5 ug	U	2.5ug
7	11097691	PCB-1254	Target	2.5 ug	U	2.5ug
8	11096825	PCB-1260	Target	2.5 ug	U	2.5ug
9	2051243	PCB Congener 209	Surrogate	62 %Rec		

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Project Code:	OCE-009A	Parameter:	PCB	Sample ID:	16124013
Project Name:	SKY VALLEY EDUCATION CENTER			Type:	Sample
Project Officer:	Michelle Mullin			Matrix:	Wipe/Swab
Account Code:	20162017B10P501E50			Container ID :	
Collected:	3/23/16	Prepped:	3/30/16	Released:	
Received:	3/24/16			Reviewed:	4/19/16 CP
VERIFIED	<u>4/20/16</u>	<u>VHR</u>		Promised:	
				Analysis Seq : 31	

Initial Amount:	Weight Basis:	Dry	Suffix:		
Final Amount:	100 mL				
Dilution Factor:	1				
Method:	8082A	Polychlorinated Biphenyls by GC/ECD			
Anl. Batch:	A-8082A-MINERVA-DWO-040416				
Analyte Code	Analyte Name	Res Type	Result Units	Qlfr	RL

1	877098 Tetrachloromethylene	Surrogate	79 %Rec		
2	11104282 PCB-1221	Target	2.5 ug	U	2.5ug
3	11141165 PCB-1232	Target	2.5 ug	U	2.5ug
4	12674112 PCB-1016	Target	2.5 ug	U	2.5ug
5	53469219 PCB-1242	Target	2.5 ug	U	2.5ug
6	12672296 PCB-1248	Target	2.5 ug	U	2.5ug
7	11097691 PCB-1254	Target	2.5 ug	U	2.5ug
8	11096825 PCB-1260	Target	2.5 ug	U	2.5ug
9	2051243 PCB Congener 209	Surrogate	91 %Rec		

US EPA Region 10 Laboratory

Multi Analyte Verification Report



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Project Code:	OCE-009A	Parameter:	PCB	Sample ID:	92O033016B1
Project Name:	SKY VALLEY EDUCATION CENTER			Type:	Blank
Project Officer:	Michelle Mullin			Matrix:	Swab
Account Code:	20162017B10P501E50			Container ID :	
Collected:	Prepped:	3/30/16	Released:		
Received:			Reviewed:	4/19/16	CP
VERIFIED <u>4/20/16</u> <u>WLR</u>			Promised:		
			Analysis Seq : 26		

Initial Amount:	Weight Basis:	Dry	Suffix:
Final Amount:	100 mL		
Dilution Factor:	1		
Method:	8082A Polychlorinated Biphenyls by GC/ECD		
Anl. Batch:	A-8082A-MINERVA-DWO-040416		
Analyzed: 4/4/16 7:35 pm			
%Solids: * 100			

	<u>Analyte Code</u>	<u>Analyte Name</u>	<u>Res Type</u>	<u>Result Units</u>	<u>Qlfr</u>	<u>RL</u>
1	877098	Tetrachloromethylene	Surrogate	66 %Rec		
2	11104282	PCB-1221	Target	2.5 ug	U	2.5ug
3	11141165	PCB-1232	Target	2.5 ug	U	2.5ug
4	12674112	PCB-1016	Target	2.5 ug	U	2.5ug
5	53469219	PCB-1242	Target	2.5 ug	U	2.5ug
6	12672296	PCB-1248	Target	2.5 ug	U	2.5ug
7	11097691	PCB-1254	Target	2.5 ug	U	2.5ug
8	11096825	PCB-1260	Target	2.5 ug	U	2.5ug
9	2051243	PCB Congener 209	Surrogate	78 %Rec		

92O033016B1 Blank

US EPA Region 10 Laboratory

Multi Analyte Verification Report



4/20/2016

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Project Code:	OCE-009A	Parameter:	PCB	Sample ID:	92O033016L1
Project Name:	SKY VALLEY EDUCATION CENTER			Type:	Lab Control Std
Project Officer:	Michelle Mullin			Matrix:	Swab
Account Code:	20162017B10P501E50			Container ID :	
Collected:	Prepped:	3/30/16	Released:		
Received:			Reviewed:	4/19/16	CP
VERIFIED <u>4/20/16</u> <u>CMR</u>			Promised:	Analysis Seq : 27	
Initial Amount:	Weight Basis: Dry			Suffix:	
Final Amount:	10 mL			%Solids: *100	
Dilution Factor:	1			Analyzed: 4/4/16 8:10 pm	
Method:	8082A	Polychlorinated Biphenyls by GC/ECD			
Anl. Batch:	A-8082A-MINERVA-DWO-040416				

	<u>Analyte Code</u>	<u>Analyte Name</u>	<u>Res_Type</u>	<u>Result_Units</u>	<u>Qlfr</u>	<u>RL</u>
1	877098	Tetrachloromethylene	Surrogate	72 %Rec		
4	12674112	PCB-1016	Spike	76 %Rec	0.25ug	
8	11096825	PCB-1260	Spike	82 %Rec	0.25ug	
9	2051243	PCB Congener 209	Surrogate	81 %Rec		

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Multi Analyte Verification Report



4/20/2016

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Project Code:	OCE-009A	Parameter:	PCB	Sample ID:	92O033016L2
Project Name:	SKY VALLEY EDUCATION CENTER			Type:	Lab Control Std Dup.
Project Officer:	Michelle Mullin			Matrix:	Swab
Account Code:	20162017B10P501E50			Container ID :	
Collected:	Prepped:	3/30/16	Released:		
Received:			Reviewed:	4/19/16	CP
VERIFIED <u>4/20/16</u> <u>WKR</u>			Promised:		
Analysis Seq : 28					

Initial Amount: Weight Basis: Dry Suffix:
 Final Amount: 10 mL %Solids: * 100
 Dilution Factor: 1
 Method: 8082A Analyzed: 4/4/16 8:45 pm
 Anl. Batch: A-8082A-MINERVA-DWO-040416 Polychlorinated Biphenyls by GC/ECD

Analyte Code	Analyte Name	Res_Type	Result_Units	Qlfr	RL
1	877098 Tetrachlorometaylene	Surrogate	65 %Rec		
4	12674112 PCB-1016	Spike	76 %Rec	0.25ug	
8	11096825 PCB-1260	Spike	82 %Rec	0.25ug	
9	2051243 PCB Congener 209	Surrogate	76 %Rec		

US EPA Region 10 Laboratory

Multi Analyte Verification Report



4/15/2016

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Project Code: OCE-009A

Parameter: PCB

Sample ID: 16124000

Project Name: SKY VALLEY EDUCATION CENTER

Type: Sample

Project Officer: Michelle Mullin

Matrix: Wipe/Swab

Account Code: 20162017B10P501E50

Container ID :

Collected: 3/22/16

Prepped: 3/30/16

Received: 3/24/16

Released:

Reviewed:

Promised:

VERIFIED ___ / ___ / ___

Analysis Seq : 29

Initial Amount: 40 mL NA

Final Amount: 100 mL

Dilution Factor: 1

Weight Basis: Dry

Suffix:

Method: 8082A

Polychlorinated Biphenyls by GC/ECD

%Solids: * 100

Anl. Batch: A-8082A-MINERVA-DWO-040416

	Analyte Code	Analyte Name	Res Type	Result Units	Qlfr	RL
1	877098	Tetrachlorometaethylene	Surrogate	72 %Rec		
2	11104282	PCB-1221	Target	2.5 ug	U	2.5ug
3	11141165	PCB-1232	Target	2.5 ug	U	2.5ug
4	12674112	PCB-1016	Target	2.5 ug	U	2.5ug
5	53469219	PCB-1242	Target	2.5 ug	U	2.5ug
6	12672296	PCB-1248	Target	2.5 ug	U	2.5ug
7	11097691	PCB-1254	Target	2.5 ug	U	2.5ug
8	11096825	PCB-1260	Target	2.5 ug	U	2.5ug
9	2051243	PCB Congener 209	Surrogate	92 %Rec		

COPY

16124000 Sample

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Multi Analyte Verification Report



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Project Code: OCE-009A

Parameter: PCB

Sample ID: 16124001

Project Name: SKY VALLEY EDUCATION CENTER

Type: Sample

Project Officer: Michelle Mullin

Matrix: Wipe/Swab

Account Code: 20162017B10P501E50

Container ID :

Collected: 3/22/16

Prepped: 3/30/16

Released:

Received: 3/24/16

Reviewed:

Promised:

VERIFIED ____ / ____ / ____

Analysis Seq : 38

Initial Amount: 40 mL NA

Weight Basis: Dry

Suffix:

Final Amount: 100 mL

AP
4/18/16

%Solids: * 100

Dilution Factor: 1

Analyzed: 4/5/16 2:32 am

Method: 8082A

Polychlorinated Biphenyls by GC/ECD

Anl. Batch: A-8082A-MINERVA-DWO-040516

	<u>Analyte Code</u>	<u>Analyte Name</u>	<u>Res Type</u>	<u>Result Units</u>	<u>Qlfr</u>	<u>RL</u>
1	877098	Tetrachlorometaxylene	Surrogate	67 %Rec		
2	11104282	PCB-1221	Target	2.5 ug	U	2.5ug
3	11141165	PCB-1232	Target	2.5 ug	U	2.5ug
4	12674112	PCB-1016	Target	2.5 ug	U	2.5ug
6	12672296	PCB-1248	Target	2.5 ug	U	2.5ug
7	11097691	PCB-1254	Target	2.5 ug	U	2.5ug
8	11096825	PCB-1260	Target	2.5 ug	U	2.5ug
9	2051243	PCB Congener 209	Surrogate	69 %Rec		

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16124001 Sample

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Project Code: OCE-009A

Parameter: PCB

Sample ID: 16124001

Project Name: SKY VALLEY EDUCATION CENTER

Type: Sample

Project Officer: Michelle Mullin

Matrix: Wipe/Swab

Account Code: 20162017B10P501E50

Container ID :

Collected: 3/22/16

Prepped: 3/30/16

Released:

Received: 3/24/16

Reviewed:

Promised:

VERIFIED ___ / ___ / ___

Analysis Seq : 53

Initial Amount: 40 mL NA

CR 4/18/16

Weight Basis: Dry

Suffix: D1

Final Amount: 100 mL

Analyzed: 4/5/16 10:45 am

%Solids: * 100

Dilution Factor: 10

Method: 8082A

Polychlorinated Biphenyls by GC/ECD

Anl. Batch: A-8082A-MINERVA-DWO-040516

	Analyte Code	Analyte Name	Res Type	Result Units	Qlfr	RL
5	53469219	PCB-1242	Target	170 ug		25ug

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16124001 Sample

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Project Code:	OCE-009A	Parameter:	PCB	Sample ID:	16124002
Project Name:	SKY VALLEY EDUCATION CENTER			Type:	Sample
Project Officer:	Michelle Mullin			Matrix:	Wipe/Swab
Account Code:	20162017B10P501E50			Container ID :	
Collected:	3/22/16	Prepped:	3/30/16	Released:	
Received:	3/24/16			Reviewed:	
VERIFIED	____/____/____			Promised:	
				Analysis Seq : 30	
Initial Amount:	40 mL	N/A	Weight Basis:	Dry	Suffix:
Final Amount:	100 mL	4/18/16	Analyzed:	4/4/16 9:54 pm	%Solids: * 100
Dilution Factor:	1				
Method:	8082A	Polychlorinated Biphenyls by GC/ECD			
Anl. Batch:	A-8082A-MINERVA-DWO-040416				

	Analyte Code	Analyte Name	Res Type	Result Units	Qlf	RL
1	877098	Tetrachlorometaxylen	Surrogate	80 %Rec		
2	11104282	PCB-1221	Target	2.5 ug	U	2.5ug
3	11141165	PCB-1232	Target	2.5 ug	U	2.5ug
4	12674112	PCB-1016	Target	2.5 ug	U	2.5ug
5	53469219	PCB-1242	Target	2.5 ug	U	2.5ug
6	12672296	PCB-1248	Target	2.5 ug	U	2.5ug
7	11097691	PCB-1254	Target	2.5 ug	U	2.5ug
8	11096825	PCB-1260	Target	2.5 ug	U	2.5ug
9	2051243	PCB Congener 209	Surrogate	96 %Rec		

COPY

16124002 Sample

COPY



4/15/2016

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Project Code:	OCE-009A	Parameter:	PCB	Sample ID:	16124003
Project Name:	SKY VALLEY EDUCATION CENTER			Type:	Sample
Project Officer:	Michelle Mullin			Matrix:	Wipe/Swab
Account Code:	20162017B10P501E50			Container ID :	
Collected:	3/22/16	Prepped:	3/30/16	Released:	
Received:	3/24/16			Reviewed:	
VERIFIED	____/____/____			Promised:	
Initial Amount:	40 mL	N/A	Weight Basis:	Dry	Suffix:
Final Amount:	100 mL	U	Analyzed:	4/5/16 7:09 am	%Solids: * 100
Dilution Factor:	1	4/18/16	Method: 8082A Polychlorinated Biphenyls by GC/ECD		
Anl. Batch:	A-8082A-MINERVA-DWO-040516				

Analyte Code	Analyte Name	Res Type	Result Units	Qlfr	RL
1	877098 Tetrachlorometaxylene	Surrogate	76 %Rec		
2	11104282 PCB-1221	Target	2.5 ug	U	2.5ug
3	11141165 PCB-1232	Target	2.5 ug	U	2.5ug
4	12674112 PCB-1016	Target	2.5 ug	U	2.5ug
6	12672296 PCB-1248	Target	2.5 ug	U	2.5ug
7	11097691 PCB-1254	Target	2.5 ug	U	2.5ug
8	11096825 PCB-1260	Target	2.5 ug	U	2.5ug
9	2051243 PCB Congener 209	Surrogate	262 %Rec		

N/A no unit

16124003 Sample

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Project Code: OCE-009A

Parameter: PCB

Sample ID: 16124003

Project Name: SKY VALLEY EDUCATION CENTER

Type: Sample

Project Officer: Michelle Mullin

Matrix: Wipe/Swab

Account Code: 20162017B10P501E50

Container ID :

Collected: 3/22/16

Prepped: 3/30/16

Released:

Received: 3/24/16

Reviewed:

VERIFIED ____ / ____ / ____

Promised:

Analysis Seq : 55

Initial Amount: 40 mL *NA*

Weight Basis: Dry

Suffix: D1

Final Amount: 100 mL *CP**4/18/16*

%Solids: * 100

Dilution Factor: 100

Analyzed: 4/5/16 11:55 am

Method: 8082A

Polychlorinated Biphenyls by GC/ECD

Anl. Batch: A-8082A-MINERVA-DWO-040516

<u>Analyte Code</u>	<u>Analyte Name</u>	<u>Res Type</u>	<u>Result Units</u>	<u>Qlfr</u>	<u>RL</u>
5	53469219 PCB-1242	Target	9300 ug	250ug	

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16124003 Sample

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Project Code: OCE-009A

Parameter: PCB

Sample ID: 16124004

Type: Sample

Matrix: Wipe/Swab

Container ID :

Project Name: SKY VALLEY EDUCATION CENTER
 Project Officer: Michelle Mullin
 Account Code: 20162017B10P501E50

Collected: 3/22/16 Prepped: 3/30/16
 Received: 3/24/16

Released:

Reviewed:

Promised:

VERIFIED ____ / ____ / ____

Analysis Seq : 6

Initial Amount: 40 mL NA

Final Amount: 100 mL

Dilution Factor: 1

Method: 8082A

CF
4/18/16

Weight Basis: Dry

Suffix:

Analyzed: 4/13/16 11:55 am

% Solids: * 100

Anl. Batch: A-8082A-MINERVA-DWO-041316

Analyte Code	Analyte Name	Res Type	Result Units	Qlfr	RL
8	11096825 PCB-1260	Target	15 ug		2.5ug

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16124004 Sample

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Project Code: OCE-009A

Parameter: PCB

Sample ID: 16124004

Project Name: SKY VALLEY EDUCATION CENTER

Type: Sample

Project Officer: Michelle Mullin

Matrix: Wipe/Swab

Account Code: 20162017B10P501E50

Container ID :

Collected: 3/22/16

Prepped: 3/30/16

Released:

Received: 3/24/16

Reviewed:

VERIFIED ___ / ___ / ___

Promised:

Analysis Seq : 42

Initial Amount: 40 mL *NA*Final Amount: 100 mL *4/18/16*

Dilution Factor: 1

Weight Basis: Dry

Suffix:

Method: 8082A

Polychlorinated Biphenyls by GC/ECD

%Solids: * 100

Anl. Batch: A-8082A-MINERVA-DWO-040516

Analyte Code	Analyte Name	Res Type	Result Units	Qlfir	RL
1	877098 Tetrachloromethylene	Surrogate	67 %Rec		
2	11104282 PCB-1221	Target	2.5 ug	U	2.5ug
3	11141165 PCB-1232	Target	2.5 ug	U	2.5ug
4	12674112 PCB-1016	Target	2.5 ug	U	2.5ug
5	53469219 PCB-1242	Target	13 ug		2.5ug
6	12672296 PCB-1248	Target	2.5 ug	U	2.5ug
7	11097691 PCB-1254	Target	2.5 ug	U	2.5ug
9	2051243 PCB Congener 209	Surrogate	81 %Rec		

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16124004 Sample

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Multi Analyte Verification Report



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Project Code: OCE-009A

Parameter: PCB

Sample ID: 16124005

Project Name: SKY VALLEY EDUCATION CENTER

Type: Sample

Project Officer: Michelle Mullin

Matrix: Wipe/Swab

Account Code: 20162017B10P501E50

Container ID :

Collected: 3/22/16

Prepped: 3/30/16

Released:

Received: 3/24/16

Reviewed:

Promised:

VERIFIED ___ / ___ / ___

Analysis Seq : 43

Initial Amount: 40mL NA

Weight Basis: Dry

Suffix:

Final Amount: 100 mL

CL
4/18/16

%Solids: * 100

Dilution Factor: 1

Analyzed: 4/5/16 5:25 am

Method: 8082A

Polychlorinated Biphenyls by GC/ECD

Anl. Batch: A-8082A-MINERVA-DWO-040516

Analyte Code	Analyte Name	Res Type	Result Units	Qlf	RL
1	877098 Tetrachlorometaethylene	Surrogate	68 %Rec		
2	11104282 PCB-1221	Target	2.5 ug	U	2.5ug
3	11141165 PCB-1232	Target	2.5 ug	U	2.5ug
4	12674112 PCB-1016	Target	2.5 ug	U	2.5ug
5	53469219 PCB-1242	Target	25 ug		2.5ug
6	12672296 PCB-1248	Target	2.5 ug	U	2.5ug
7	11097691 PCB-1254	Target	2.5 ug	U	2.5ug
8	11096825 PCB-1260	Target	2.5 ug	U	2.5ug
9	2051243 PCB Congener 209	Surrogate	87 %Rec		

COPY

16124005 Sample

US EPA Region 10 Laboratory

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Project Code: OCE-009A

Parameter: PCB

Sample ID: 16124006

Type: Sample

Matrix: Wipe/Swab

Container ID :

Project Name: SKY VALLEY EDUCATION CENTER
 Project Officer: Michelle Mullin
 Account Code: 20162017B10P501E50

Collected: 3/22/16 Prepped: 3/30/16
 Received: 3/24/16

Released:

Reviewed:

Promised:

VERIFIED ____ / ____ / ____

Analysis Seq : 33

Initial Amount: 40 mL NA

CP
4/18/16

Weight Basis: Dry

Suffix:

Final Amount: 100 mL

%Solids: * 100

Dilution Factor: 1

Analyzed: 4/4/16 11:38 pm

Method: 8082A

Polychlorinated Biphenyls by GC/ECD

Anl. Batch: A-8082A-MINERVA-DWO-040416

<u>Analyte Code</u>	<u>Analyte Name</u>	<u>Res Type</u>	<u>Result Units</u>	<u>Qlfr</u>	<u>RL</u>
1	877098 Tetrachloromethylene	Surrogate	68 %Rec		
2	11104282 PCB-1221	Target	2.5 ug	U	2.5ug
3	11141165 PCB-1232	Target	2.5 ug	U	2.5ug
4	12674112 PCB-1016	Target	2.5 ug	U	2.5ug
5	53469219 PCB-1242	Target	7.3 ug		2.5ug
6	12672296 PCB-1248	Target	2.5 ug	U	2.5ug
7	11097691 PCB-1254	Target	2.5 ug	U	2.5ug
8	11096825 PCB-1260	Target	2.5 ug	U	2.5ug
9	2051243 PCB Congener 209	Surrogate	68 %Rec		

COPY

16124006 Sample

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Project Code: OCE-009A

Parameter: PCB

Sample ID: 16124007

Project Name: SKY VALLEY EDUCATION CENTER

Type: Sample

Project Officer: Michelle Mullin

Matrix: Wipe/Swab

Account Code: 20162017B10P501E50

Container ID :

Collected: 3/22/16

Prepped: 3/30/16

Released:

Received: 3/24/16

Reviewed:

Promised:

VERIFIED ___/___/___

Analysis Seq : 5

Initial Amount: 40 mL

NA
4/18/16

Weight Basis: Dry

Suffix:

Final Amount: 100 mL

%Solids: * 100

Dilution Factor: 1

Analyzed: 4/13/16 11:20 am

Method: 8082A

Polychlorinated Biphenyls by GC/ECD

Anl. Batch: A-8082A-MINERVA-DWO-041316

Analyte Code	Analyte Name	Res Type	Result Units	Qlfr	RL
8 11096825	PCB-1260	Target	6.1 ug	2.5ug	

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16124007 Sample

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Multi Analyte Verification Report



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Project Code:	OCE-009A	Parameter:	PCB	Sample ID:	16124007
Project Name:	SKY VALLEY EDUCATION CENTER			Type:	Sample
Project Officer:	Michelle Mullin			Matrix:	Wipe/Swab
Account Code:	20162017B10P501E50			Container ID :	
Collected:	3/22/16	Prepped:	3/30/16	Released:	
Received:	3/24/16			Reviewed:	
VERIFIED	____ / ____ / _____			Promised:	
				Analysis Seq : 44	
Initial Amount:	40 mL	NA	Weight Basis:	Dry	Suffix:
Final Amount:	100 mL	of 4/18/16	Analyzed:	4/5/16 6:00 am	% Solids: * 100
Dilution Factor:	1		Method:	8082A Polychlorinated Biphenyls by GC/ECD	
Anl. Batch:	A-8082A-MINERVA-DWO-040516				

<u>Analyte Code</u>	<u>Analyte Name</u>	<u>Res Type</u>	<u>Result Units</u>	<u>Qlfr</u>	<u>RL</u>
1	877098 Tetrachloromethaxylene	Surrogate	69 %Rec		
2	11104282 PCB-1221	Target	2.5 ug	U	2.5ug
3	11141165 PCB-1232	Target	2.5 ug	U	2.5ug
4	12674112 PCB-1016	Target	2.5 ug	U	2.5ug
6	12672296 PCB-1248	Target	2.5 ug	U	2.5ug
7	11097691 PCB-1254	Target	2.5 ug	U	2.5ug
9	2051243 PCB Congener 209	Surrogate	91 %Rec		

COPY 16124007 Sample

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Multi Analyte Verification Report



4/15/2016

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Project Code: OCE-009A

Parameter: PCB

Sample ID: 16124007

Project Name: SKY VALLEY EDUCATION CENTER

Type: Sample

Project Officer: Michelle Mullin

Matrix: Wipe/Swab

Account Code: 20162017B10P501E50

Container ID :

Collected: 3/22/16

Prepped: 3/30/16

Released:

Received: 3/24/16

Reviewed:

Promised:

VERIFIED ___ / ___ / ___

Analysis Seq : 54

Initial Amount: 40 mL

NA
CP
4/18/16

Weight Basis: Dry

Suffix: D1

Final Amount: 100 mL

%Solids: *100

Dilution Factor: 10

Analyzed: 4/5/16 11:20 am

Method: 8082A

Polychlorinated Biphenyls by GC/ECD

Anl. Batch: A-8082A-MINERVA-DWO-040516

Analyte Code	Analyte Name	Res Type	Result Units	QLfr	RL
5	53469219 PCB-1242	Target	240 ug		25ug

COPY 16124007 Sample

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Multi Analyte Verification Report



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Project Code: OCE-009A

Parameter: PCB

Sample ID: 16124008

Project Name: SKY VALLEY EDUCATION CENTER

Type: Sample

Project Officer: Michelle Mullin

Matrix: Wipe/Swab

Account Code: 20162017B10P501E50

Container ID:

Collected: 3/22/16

Prepped: 3/30/16

Released:

Received: 3/24/16

Reviewed:

Promised:

VERIFIED ___ / ___ / ___

Analysis Seq : 32

Initial Amount: 40 mL NA

CP
4/18/16

Weight Basis: Dry

Suffix:

Final Amount: 100 mL

% Solids: * 100

Dilution Factor: 1

Analyzed: 4/4/16 11:04 pm

Method: 8082A

Polychlorinated Biphenyls by GC/ECD

Anl. Batch: A-8082A-MINERVA-DWO-040416

<u>Analyte Code</u>	<u>Analyte Name</u>	<u>Res Type</u>	<u>Result Units</u>	<u>Qlfr</u>	<u>RL</u>
1	877098 Tetrachlorometaxylene	Surrogate	59 %Rec		
2	11104282 PCB-1221	Target	2.5 ug	U	2.5ug
3	11141165 PCB-1232	Target	2.5 ug	U	2.5ug
4	12674112 PCB-1016	Target	2.5 ug	U	2.5ug
5	53469219 PCB-1242	Target	7.1 ug		2.5ug
6	12672296 PCB-1248	Target	2.5 ug	U	2.5ug
7	11097691 PCB-1254	Target	2.5 ug	U	2.5ug
8	11096825 PCB-1260	Target	2.5 ug	U	2.5ug
9	2051243 PCB Congener 209	Surrogate	69 %Rec		

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16124008 Sample

US EPA Region 10 Laboratory

Multi Analyte Verification Report



4/15/2016

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Project Code: OCE-009A

Parameter: PCB

Sample ID: 16124009

Project Name: SKY VALLEY EDUCATION CENTER

Type: Sample

Project Officer: Michelle Mullin

Matrix: Wipe/Swab

Account Code: 20162017B10P501E50

Container ID:

Collected: 3/22/16

Prepped: 3/30/16

Released:

Received: 3/24/16

Reviewed:

Promised:

VERIFIED ____/____/____

Analysis Seq: 34

Initial Amount: 40 mL

NA
CP
4/18/16

Weight Basis: Dry

Suffix:

Final Amount: 100 mL

%Solids: * 100

Dilution Factor: 1

Analyzed: 4/5/16 12:13 am

Method: 8082A

Polychlorinated Biphenyls by GC/ECD

Anl. Batch: A-8082A-MINERVA-DWO-040516

	Analyte Code	Analyte Name	Res Type	Result Units	Qlfr	RL
1	877098	Tetrachlorometaylene	Surrogate	69 %Rec		
2	11104282	PCB-1221	Target	2.5 ug	U	2.5ug
3	11141165	PCB-1232	Target	2.5 ug	U	2.5ug
4	12674112	PCB-1016	Target	2.5 ug	U	2.5ug
5	53469219	PCB-1242	Target	2.5 ug	U	2.5ug
6	12672296	PCB-1248	Target	2.5 ug	U	2.5ug
7	11097691	PCB-1254	Target	2.5 ug	U	2.5ug
8	11096825	PCB-1260	Target	2.5 ug	U	2.5ug
9	2051243	PCB Congener 209	Surrogate	69 %Rec		

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16124009 Sample

US EPA Region 10 Laboratory

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Project Code:	OCE-009A	Parameter:	PCB	Sample ID:	16124010
Project Name:	SKY VALLEY EDUCATION CENTER			Type:	Sample
Project Officer:	Michelle Mullin			Matrix:	Wipe/Swab
Account Code:	20162017B10P501E50			Container ID :	
Collected:	3/22/16	Prepped:	3/30/16	Released:	
Received:	3/24/16			Reviewed:	
VERIFIED	____ / ____ / _____			Promised:	
				Analysis Seq : 39	
Initial Amount:	40 mL	Weight Basis:	Dry	Suffix:	
Final Amount:	100 mL			%Solids:	* 100
Dilution Factor:	1	Analyzed:	4/5/16 3:06 am		
Method:	8082A	Polychlorinated Biphenyls by GC/ECD			
Anl. Batch:	A-8082A-MINERVA-DWO-040516				

<u>Analyte Code</u>	<u>Analyte Name</u>	<u>Res Type</u>	<u>Result Units</u>	<u>Qlfr</u>	<u>RL</u>
1	877098 Tetrachlorometaethylene	Surrogate	71 %Rec		
2	11104282 PCB-1221	Target	2.5 ug	U	2.5ug
3	11141165 PCB-1232	Target	2.5 ug	U	2.5ug
4	12674112 PCB-1016	Target	2.5 ug	U	2.5ug
5	53469219 PCB-1242	Target	5.4 ug		2.5ug
6	12672296 PCB-1248	Target	2.5 ug	U	2.5ug
7	11097691 PCB-1254	Target	2.5 ug	U	2.5ug
8	11096825 PCB-1260	Target	2.5 ug	U	2.5ug
9	2051243 PCB Congener 209	Surrogate	61 %Rec		

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16124010 Sample

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Project Code: OCE-009A

Parameter: PCB

Sample ID: 16124011

Project Name: SKY VALLEY EDUCATION CENTER

Type: Sample

Project Officer: Michelle Mullin

Matrix: Wipe/Swab

Account Code: 20162017B10P501E50

Container ID :

Collected: 3/22/16

Prepped: 3/30/16

Released:

Received: 3/24/16

Reviewed:

Promised:

VERIFIED ____ / ____ / ____

Analysis Seq : 4

Initial Amount: 40 mL

Final Amount: 100 mL

Dilution Factor: 1

Weight Basis: Dry

Suffix:

%Solids: * 100

Method: 8082A

Polychlorinated Biphenyls by GC/ECD

Analyzed: 4/13/16 10:46 am

Anl. Batch: A-8082A-MINERVA-DWO-041316

Analyte Code	Analyte Name	Res Type	Result Units	Qlfr	RL
8	11096825 PCB-1260	Target	4.3 ug		2.5ug

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16124011 Sample

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Project Code: OCE-009A

Parameter: PCB

Sample ID: 16124011

Project Name: SKY VALLEY EDUCATION CENTER

Type: Sample

Project Officer: Michelle Mullin

Matrix: Wipe/Swab

Account Code: 20162017B10P501E50

Container ID :

Collected: 3/22/16

Prepped: 3/30/16

Released:

Received: 3/24/16

Reviewed:

Promised:

VERIFIED ___ / ___ / ___

Analysis Seq : 40

Initial Amount: 40 mL

NA

CR/18/16

Weight Basis: Dry

Suffix:

Final Amount: 100 mL

%Solids: *100

Dilution Factor: 1

Analyzed: 4/5/16 3:41 am

Method: 8082A

Polychlorinated Biphenyls by GC/ECD

Anl. Batch: A-8082A-MINERVA-DWO-040516

	Analyte Code	Analyte Name	Res Type	Result Units	Qlfr	RL
1	877098	Tetrachlorometaxylene	Surrogate	80 %Rec		
2	11104282	PCB-1221	Target	2.5 ug	U	2.5ug
3	11141165	PCB-1232	Target	2.5 ug	U	2.5ug
4	12674112	PCB-1016	Target	2.5 ug	U	2.5ug
5	53469219	PCB-1242	Target	5.3 ug		2.5ug
6	12672296	PCB-1248	Target	2.5 ug	U	2.5ug
7	11097691	PCB-1254	Target	2.5 ug	U	2.5ug
9	2051243	PCB Congener 209	Surrogate	56 %Rec		

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16124011 Sample

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Project Code: OCE-009A

Parameter: PCB

Sample ID: 16124012

Project Name: SKY VALLEY EDUCATION CENTER

Type: Sample

Project Officer: Michelle Mullin

Matrix: Wipe/Swab

Account Code: 20162017B10P501E50

Container ID:

Collected: 3/22/16

Prepped: 3/30/16

Released:

Received: 3/24/16

Reviewed:

Promised:

VERIFIED ___/___/___

Analysis Seq : 41

Initial Amount: 40 mL *NA*Final Amount: 100 mL *CP 18/16*

Dilution Factor: 1

Weight Basis: Dry

Suffix:

Method: 8082A

Analyzed: 4/5/16 4:15 am

%Solids: *100

Anl. Batch: A-8082A-MINERVA-DWO-040516

	Analyte Code	Analyte Name	Res Type	Result Units	Qlfr	RL
1	877098	Tetrachlorometaxylylene	Surrogate	77 %Rec		
2	11104282	PCB-1221	Target	2.5 ug	U	2.5ug
3	11141165	PCB-1232	Target	2.5 ug	U	2.5ug
4	12674112	PCB-1016	Target	2.5 ug	U	2.5ug
5	53469219	PCB-1242	Target	7.1 ug		2.5ug
6	12672296	PCB-1248	Target	2.5 ug	U	2.5ug
7	11097691	PCB-1254	Target	2.5 ug	U	2.5ug
8	11096825	PCB-1260	Target	2.5 ug	U	2.5ug
9	2051243	PCB Congener 209	Surrogate	62 %Rec		

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16124012 Sample

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Project Code: OCE-009A

Parameter: PCB

Sample ID: 16124013

Project Name: SKY VALLEY EDUCATION CENTER

Type: Sample

Project Officer: Michelle Mullin

Matrix: Wipe/Swab

Account Code: 20162017B10P501E50

Container ID :

Collected: 3/23/16

Prepped: 3/30/16

Released:

Received: 3/24/16

Reviewed:

Promised:

VERIFIED ___/___/___

Analysis Seq : 31

Initial Amount: 40 mL

Final Amount: 100 mL

Dilution Factor: 1

Method: 8082A

Weight Basis: Dry

Analyzed: 4/4/16 10:29 pm

Suffix:

%Solids: * 100

Polychlorinated Biphenyls by GC/ECD

Anl. Batch: A-8082A-MINERVA-DWO-040416

	Analyte Code	Analyte Name	Res Type	Result Units	Qlfr	RL
1	877098	Tetrachloromethaxylene	Surrogate	79 %Rec		
2	11104282	PCB-1221	Target	2.5 ug	U	2.5ug
3	11141165	PCB-1232	Target	2.5 ug	U	2.5ug
4	12674112	PCB-1016	Target	2.5 ug	U	2.5ug
5	53469219	PCB-1242	Target	2.5 ug	U	2.5ug
6	12672296	PCB-1248	Target	2.5 ug	U	2.5ug
7	11097691	PCB-1254	Target	2.5 ug	U	2.5ug
8	11096825	PCB-1260	Target	2.5 ug	U	2.5ug
9	2051243	PCB Congener 209	Surrogate	91 %Rec		

16124013 Sample

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Multi Analyte Verification Report



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Project Code:	OCE-009A	Parameter:	PCB	Sample ID:	92O033016B1
Project Name:	SKY VALLEY EDUCATION CENTER			Type:	Blank
Project Officer:	Michelle Mullin			Matrix:	Swab
Account Code:	20162017B10P501E50			Container ID :	
Collected:	Prepped:	3/30/16		Released:	
Received:				Reviewed:	
VERIFIED	/	/	/	Promised:	
					Analysis Seq : 26

Initial Amount:	40 mL <i>N/A</i>	Weight Basis:	Dry	Suffix:
Final Amount:	100 mL	<i>CP 4/18/16</i>		%Solids: * 100
Dilution Factor:	1	Analyzed:	4/4/16 7:35 pm	
Method:	8082A	Polychlorinated Biphenyls by GC/ECD		
Anl. Batch:	A-8082A-MINERVA-DWO-040416			

	<u>Analyte Code</u>	<u>Analyte Name</u>	<u>Res Type</u>	<u>Result Units</u>	<u>Qlfr</u>	<u>RL</u>
1	877098	Tetrachlorometaxylene	Surrogate	66 %Rec		
2	11104282	PCB-1221	Target	2.5 ug	U	2.5ug
3	11141165	PCB-1232	Target	2.5 ug	U	2.5ug
4	12674112	PCB-1016	Target	2.5 ug	U	2.5ug
5	53469219	PCB-1242	Target	2.5 ug	U	2.5ug
6	12672296	PCB-1248	Target	2.5 ug	U	2.5ug
7	11097691	PCB-1254	Target	2.5 ug	U	2.5ug
8	11096825	PCB-1260	Target	2.5 ug	U	2.5ug
9	2051243	PCB Congener 209	Surrogate	78 %Rec		

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92O033016B1 Blank

US EPA Region 10 Laboratory

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Project Code: OCE-009A

Parameter: PCB

Sample ID: 920033016L1

Project Name: SKY VALLEY EDUCATION CENTER

Type: Lab Control Std

Project Officer: Michelle Mullin

Matrix: Swab

Account Code: 20162017B10P501E50

Container ID :

Collected:

Prepped: 3/30/16

Released:

Received:

Reviewed:

Promised:

VERIFIED ___ / ___ / ___

Analysis Seq : 27

Initial Amount: 40 mL

MA
OP 4/18/16

Weight Basis: Dry

Suffix:

Final Amount: 10 mL

% Solids: * 100

Dilution Factor: 1

Analyzed: 4/4/16 8:10 pm

Method: 8082A

Polychlorinated Biphenyls by GC/ECD

Anl. Batch: A-8082A-MINERVA-DWO-040416

	<u>Analyte Code</u>	<u>Analyte Name</u>	<u>Res Type</u>	<u>Result Units</u>	<u>Qlfr</u>	<u>RL</u>
1	877098	Tetrachloromethane	Surrogate	72 %Rec		
4	12674112	PCB-1016	Spike	76 %Rec	0.25ug	
8	11096825	PCB-1260	Spike	82 %Rec	0.25ug	
9	2051243	PCB Congener 209	Surrogate	81 %Rec		

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920033016L1 Lab Control Std

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US EPA Region 10 Laboratory

Multi Analyte Verification Report



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Project Code: OCE-009A

Parameter: PCB

Sample ID: 92O033016L2

Project Name: SKY VALLEY EDUCATION CENTER

Type: Lab Control Std Dup.

Project Officer: Michelle Mullin

Matrix: Swab

Account Code: 20162017B10P501E50

Container ID :

Collected: Prepped: 3/30/16

Released:

Received:

Reviewed:

VERIFIED / / _____

Promised:

Analysis Seq : 28

Initial Amount: 40 mL NA 4/18/16

Weight Basis: Dry

Suffix:

Final Amount: 10 mL

%Solids: * 100

Dilution Factor: 1

Analyzed: 4/4/16 8:45 pm

Method: 8082A Polychlorinated Biphenyls by GC/ECD

Anl. Batch: A-8082A-MINERVA-DWO-040416

	<u>Analyte Code</u>	<u>Analyte Name</u>	<u>Res Type</u>	<u>Result Units</u>	<u>Qlfr</u>	<u>RL</u>
1	877098	Tetrachlorometaxylen	Surrogate	65 %Rec		
4	12674112	PCB-1016	Spike	76 %Rec	0.25ug	
8	11096825	PCB-1260	Spike	82 %Rec	0.25ug	
9	2051243	PCB Congener 209	Surrogate	76 %Rec		

92O033016L2 Lab Control Std Dup.

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